

# NSK Group

## Green Procurement Standard

### List of NSK Environmentally Harmful Substances (Ver. 7.3a)



Revised on August 12, 2022

**NSK Ltd.**

# **1. Laws/Regulations and Industrial Guidelines and Customer standards Referenced in the List of NSK Environmentally Harmful Substances**

## **1 – 1 Laws/Regulations**

- 1) Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.  
Class I Specified Chemical Substances  
Class II Specified Chemical Substances  
Chemical Substances Subject to Monitoring
- 2) Industrial Safety and Health Act  
Substances which are prohibited to be manufactured
- 3) Poisonous and Deleterious Substances Control Act  
Specified poisons
- 4) RoHS Directive (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment)  
(EU Directive No.2015/863/EU )
- 5) ELV Directive (End of Life Vehicles, Directive)  
(EU Directive No.2011/37/EU)
- 6) REACH Regulations Annex XVII Restricted substances( ~Entry76 )
- 7) REACH Regulations Annex XIV Permitted substances( 59 substances )
- 8) REACH Regulations SVHC (Substances of Very High Concern)  
(1st-27th candidates)  
(Registration, Evaluation, Authorization and Restriction of Chemicals)
- 9) EU POPs Regulation (EC) No 2019/1021 ANNEX I
- 1 0) CLP Regulations Annex VI Table3.2 CMR ((Categories 1, 2) Substances  
(C : Carcinogenic, M : Mutagenic, R : Toxic for Reproduction)
- 1 1) Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)
- 1 2) Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
- 1 3) Toxic Substances Control Act: TSCA (US)

## **1 – 2 Industrial Guidelines**

- 1) 2022GADSL(Global Automotive Declarable Substance List)  
(Revised on August, 2022)
- 2) IEC62474 D25.00 (IEC : International Electrotechnical Commission)  
(Revised on July 18, 2022)

## **1 – 3 Customer standards**

Standards of the customer who requires the green procurement. However, except for the law stipulated in 1-1, customers' environmentally Harmful Substances (special poisonous substances, highly volatile organic solvents, etc.) are excluded as they are not likely to be contained in NSK products.

## 2. Classes and Standards for Control

### 2 – 1 Classes and Standards for Control

In order to appropriately control environmentally harmful substances in parts/materials, sub-materials, auxiliary materials for production, and packing/packaging materials, NSK environmentally harmful substances are classified into NSK prohibited substances, NSK reduced use substances, and NSK observation substances.

- 1) **NSK Prohibited Substances** Substances which must not be contained in or adhere to parts/materials, sub-materials, auxiliary materials for production and packing/packaging materials in accordance with the Classes and Standards for Product Groups specified in Section 2-2.
- 2) **NSK Reduced Substances** Substances which must not be contained in or adhere to newly selected parts/materials, sub-materials, auxiliary materials for production and packing/packaging materials in accordance with the Classes and Standards for Product Groups specified in Section 2-2.  
  
If these substances are contained in or adhere to existing parts/materials, sub-materials, auxiliary materials for production and packing/packaging materials, selection and evaluation of replacement products must have been completed.  
  
[\* "Newly selected" means items which are subject to Section 3 consisting of chemical substances which have never been used by the NSK Group in the past.]
- 3) **NSK Observation Substance** Substances whose usage locations, applications and content must be known in accordance with the Classes and Standards for Product Groups specified in Section 2-2.

### 2 – 2 Management classification and management criteria according to product group

The management classification for each NSK product group was decided according to legal regulations, industry guidelines and customer demand.

Product Group	NSK Prohibited Substances	NSK Reduced Substances	NSK Observation Substances
<b>Ball bearing</b> <b>Direct drive products</b> - Ball screw - NSK linear guide - Monocarrier (machine parts) <b>NSK-Warner products</b> - Friction plate - One-way clutch - Clutch assembly	( 3,515 substances )	( 792 substances )	( 3,279 substances )
<b>Autoparts</b> - Steering - Ball screw for actuators	P and D/P of GADSL are applied.		D of GADSL is applied.
<b>Mechatronics equipment</b> (Megatorque motor, XY table, etc.) <b>Direct drive products</b> - Monocarrier (electrical and electronic components) <b>Spindle</b>	- Cadmium and its compounds (100 ppm and above) - Lead and its compounds (1000 ppm and above) - Mercury and its compounds (1000 ppm and above) - Hexavalent chromium salts (1000 ppm and above) - Polybrominated biphenyls (1000 ppm and above) - Polybrominated diphenyl ether (1000 ppm and above) - Benzyl butyl phthalate(BBP)(1000 ppm and above) - Di(2-ethylhexyl)phthalate(DEHP)(1000 ppm and above) - Dibutylphthalate(DBP)(1000 ppm and above) - Diisobutylphthalate(DiBP)(1000 ppm and above)  (Excluding the respective substances that comply with the RoHS Directive)	-	<b>IEC62474</b> <b>However, excluding RoHS substances</b>

### 3. Application Range and Examples

Use	Description	Product Example
Parts/Materials	Parts/materials and finished/semi-finished products used in NSK products	Resins (parts/materials), rubbers (parts/materials), greases, oils, solders, finishings (platings etc.), steel stock, nonmetal materials, machined parts, screws, sensors, motors, controllers, electronic components, and others.
Sub-Materials	Substances used in or that come with NSK products which are shipped	Anticorrosives, adhesives, paints, tapes, labels, instructions for use, inks, markers, and others.
Auxiliary Materials for Production	Oils, grinding stones, and cutting tools, Jig tools used in NSK production processes	Heat treating oils, working oils (forging, cutting, grinding), surface treatment agents, detergents, solvents (thinners, etc.), interim anticorrosives, cutting tools, grinding stones, Jig tools and others.
Packing/Packaging Materials	Materials used for shipping/transporting NSK products	Plastic boxes, trays, plastic bags, plastic sheets, stretch films, cushions, pallets, crates, cardboards, tapes, banding bands, labels, printing inks, and others.

### 4. Definition of Terminology

- 1) **Environmentally harmful substance**  
A substance which has, or may have, a detrimental effect on people's health or environmental conservation
- 2) **Intentionally contained:**  
A case where a substance is continually used or added intentionally in order to impart specific characteristics, appearance or quality.
- 3) **Unintentionally contained:**  
A case where a substance is contained although not added intentionally.  
- When it is contained in a material or raw material, etc., and cannot be removed industrial material.  
- When it is a side product which cannot be removed in the manufacturing process.
- 4) **Permitted concentration (threshold):**  
Concentration below which substance is not to be prohibited, restricted or controlled.
- 5) **CAS-No (Chemical Abstracts Service Number) :**  
A number assigned to a chemical substance by the American Chemical Society (ACS: American Chemical Society).  
It has a maximum of 10 digits, a unique number being assigned to every chemical.
- 6) **GADSL (Global Automotive Declarable Substance List)**  
A list of banned substances or substances to be notified drawn up by the motor vehicle industry.  
If a threshold is exceeded, the following classification is applied:  
P : Prohibited for any use  
D/P : Prohibited for certain uses, while for other uses, notification must be given.  
D : Whenever used, notification must be given.
- 7) **IEC62474 (Issued on March 22, 2012)**  
Mandatory : Reporting is mandatory.  
Optional : Reporting is optional.

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Acetaldehyde	アセトアルデヒド	75-07-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●		●	
Acetamide, N-methyl-	アセトアミド、N-メチル	79-16-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●											●			
Acetonitrile	アセトニトリル	75-05-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Acrylamide	アクリルアミド	79-06-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●	●										●		●	
Acrylonitrile	アクリロニトリル	107-13-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●		●	
Alkyl (C7-C9), 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates, mixture of branched and linear		127519-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Alkyl Phenol derivatives, selected	アルキルフェノール誘導体、抜粋					●																
Phenol, dodecyl-, branched	フェノール、ドデシル、分岐	121158-58-5	Prohibited/Reduced	To be prohibited : These substance use are prohibited for additives of mixture sold independently (for example; anti-oxide additive of lubricant) To be reduced : Applications other than those prohibited	0.3% per CLP regulation 1712/2008 (EC) table 3.7.2	●		●											●			
Phenol, 2-dodecyl-, branched	フェノール、2-ドデシル、分岐	1801269-80-6	Prohibited/Reduced	To be prohibited : These substance use are prohibited for additives of mixture sold independently (for example; anti-oxide additive of lubricant) To be reduced : Applications other than those prohibited	0.3% per CLP regulation 1712/2008 (EC) table 3.7.2	●																
Phenol, 3-dodecyl-, branched	フェノール、3-ドデシル、分岐	1801269-77-1	Prohibited/Reduced	To be prohibited : These substance use are prohibited for additives of mixture sold independently (for example; anti-oxide additive of lubricant) To be reduced : Applications other than those prohibited	0.3% per CLP regulation 1712/2008 (EC) table 3.7.2	●																
Phenol, 4-dodecyl-, branched	フェノール、4-ドデシル、分岐	210555-94-5	Prohibited/Reduced	To be prohibited : These substance use are prohibited for additives of mixture sold independently (for example; anti-oxide additive of lubricant) To be reduced : Applications other than those prohibited	0.3% per CLP regulation 1712/2008 (EC) table 3.7.2	●		●											●			
Phenol, (tetrapropenyl) derivatives	フェノール、(テトラプロペン)誘導体	74499-35-7	Prohibited/Reduced	To be prohibited : These substance use are prohibited for additives of mixture sold independently (for example; anti-oxide additive of lubricant) To be reduced : Applications other than those prohibited	0.3% per CLP regulation 1712/2008 (EC) table 3.7.2	●		●											●			
Amines, coco alkyl		61788-46-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Amines, which can form carcinogenic Nitrosamines, selected	発がん性のあるニトロソアミンを形成する可能性のあるアミン、抜粋					●																
N,N-Diethanolamine (Ethanol, 2,2'-iminobis-)	ジエタノールアミン	111-42-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
N,N-Diethylamine (Ethanamine, N-ethyl-)	ジエチルアミン	109-89-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N,N-Di-i-propylamine (2-Propanamine, N-(1-methylethyl)-)	ジイソプロピルアミン	108-18-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N,N-Dimethylamine (Methanamine, N-methyl- )	ジメチルアミン	124-40-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N,N-Di-n-propylamine (1-Propanamine, N-propyl- )	ジ-n-プロピルアミン	142-84-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N,N-Di-n-butylamine (1-Butanamine, N-butyl- )	ジ-n-ブチルアミン	111-92-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N,N-Ethylphenylamine (Benzenamine, N-ethyl- )	N-エチルアニリン	103-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N,N-Methylethylamine (Ethanamine, N-methyl- )	N-メチルエチルアミン	624-78-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N-Methyl-N-phenylamine (Benzenamine, N-methyl- )	N-メチルアニリン	100-61-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Morpholine	モルホリン	110-91-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Piperidine	ピペリジン	110-89-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Pyrrrolidine	ピロリジン	123-75-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
4-Aminobiphenyl and its salts, all members	4-アミノビフェニルおよびその塩、全て					●																
4-Aminobiphenyl	4-アミノビフェニル	92-67-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●	●	●	●						●						●	
p-aminobiphenyl hydrochloride	p-アミノビフェニル塩酸塩	2113-61-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●																
4-chloro-o-toluidine	4-クロロ-2-メチルアニリン	95-69-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●															●
o-aminoazotoluene	2-アミノアゾトルエン	97-56-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●	●													●
5-nitro-o-toluidine	5-ニトロトルエン	99-55-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●															
4-chloroaniline	p-クロロアニリン	106-47-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●															●
4-methoxy-m-phenylenediamine	2,4-ジアミノフェニル	615-05-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●															●
4,4'-methylenedi-o-toluidine	4,4'-ジアミノ-3,3'-ジメチルジフェニルメタン	838-88-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●														●
6-methoxy-m-toluidine		120-71-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●														●
4,4'-methylene-bis(2-chloroaniline)		101-14-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●		●												●
4,4'-oxydianiline	4,4'-ジアミノジフェニルエーテル	101-80-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●														●
4,4'-thiodianiline	4,4'-ジアミノジフェニルスルファイド	139-65-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●															●
o-toluidine	o-トルイジン	95-53-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●														●
4-methyl-m-phenylenediamine		95-80-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●														●
2,4,5-trimethylaniline	2,4,5-トリメチルアニリン	137-17-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●															●
o-anisidine	o-アニジジン	90-04-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●														●
4-amino azobenzene		60-09-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 30		●	●														●
Ammonium Nitrate (AN)	硝酸アンモニウム	6484-52-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													
Ammonium perchlorate	過塩素酸アンモニウム	7790-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●															
Aniline and its salts, all members	アニリンおよびその塩、全て					●																
Aniline	アニリン	62-53-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Aniline chloride	アニリン塩酸塩	142-04-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Anilinetrihydroboron	アニリントリボロハイドライド	660-53-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Benzenamine sulfate (2:1)	アニリン硫酸塩	542-16-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Salts from 2,2'-Dichloro-4,4'-methylenedianiline		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
3,5-Dichloro-4-(1,1,2,2-Tetrafluoroethoxy)Aniline	3,5-ジクロロ-4-(1,1,2,2-テトラフルオロエトキシ)アニリン	104147-32-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Salts from 4,4'-Carbonimidoylbis[N,N-dimethylanilin]	4,4'-カルボニミドビス[N,N-ジメチルアニリン]塩	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
9,10-Anthracenedione, 1-[(5,7-dichloro-1,9-dihydro-2-methyl-9-oxopyrazolo[5,1-b]quinazolin-3-yl)azo]- (Pigment Red 251)	3-(1-アンチラクセン-9-イル-5,7-ジクロロ-2-メチル-1H-ピラゾロ[3,2-b]キノザリン-9-イル)アゾ	74336-60-0	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

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Antimonytrioxide (Diantimonytrioxide)	三酸化アンチモン(三酸化二アンチモン)	1309-64-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●		
Aromatic amines, selected	芳香族アミン類、抜粋					●																	
N-Phenyl-2-naphthylamine	N-フェニル-2-ナフチルアミン	135-88-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Diethylmethylbenzenediamine	ジエチルメチルベンゼンジアミン	68479-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Bis(methylthio)toluenediamine	ビス(メチルチオ)トルエンジアミン	106264-79-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Diphenylamine	ジフェニルアミン	122-39-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
1,3-benzenediamine, 4,6-diethyl-2-methyl-	2,6-ジアミノ-3,5-ジエチル-1,3-ベンゼンジアミン	2095-01-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
1,3-benzenediamine, 2,4-diethyl-6-methyl-	2,4-ジアミノ-3,5-ジエチル-1,3-ベンゼンジアミン	2095-02-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
O-toluidine, 4-chloro-, hydrochloride	4-クロロ-オ-トルイジン塩酸塩	3165-93-3	Prohibited/Observation	To be prohibited: Textile products other than clothing that come into contact with human skin To be controlled: Applications other than those prohibited	To be prohibited: Textile products other than clothing that come into contact with human skin. 50 To be controlled: Relative to the weight of component parts and materials 1000	●													●				
2,4-Diaminoanisole sulphate (1,3-Benzenediamine, 4-methoxy-, sulfate (1:1:1))	2,4-ジアミノアニソール硫酸	39156-41-7	Prohibited/Observation	To be prohibited: Textile products other than clothing that come into contact with human skin To be controlled: Applications other than those prohibited	To be prohibited: Textile products other than clothing that come into contact with human skin. 50 To be controlled: Relative to the weight of component parts and materials 1000	●													●		●		
Benzenamine, 2-methyl-5-nitro-, monohydrochloride	4,4'-(4-メチル-2,5-ジニトロフェニル)ジアミン塩酸塩	51085-52-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
3,5-Dichlor-4-(1,1,2,2-tetrafluoroethoxy)aniline	3,5-ジクロロ-4-(1,1,2,2-テトラフルオロエトキシ)アニリン	104147-32-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	ヘキサシアノ-26	2580-56-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●															
Methanaminium, n-[4-bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-n-methyl-, chloride: C.I. Basic Violet 3	[4-[[4-(4-ジメチルアミノフェニル)メチレン]-2,5-シクロヘキサジエン-1-イルイデン]ジメチルアンモニウム塩酸塩]	548-62-9	Prohibited/Observation	To be prohibited: Textile products other than clothing that come into contact with human skin To be controlled: Applications other than those prohibited	To be prohibited: Textile products other than clothing that come into contact with human skin. 50 To be controlled: Relative to the weight of component parts and materials 1000	●		●											●		●		
Benzenamine, 4-[(4-aminophenyl)(4-limino-2,5-cyclohexadien-1-ylidene)methyl]-, monohydrochloride	4-[[4-アミノフェニル(4-イミノ-2,5-シクロヘキサジエン-1-イルイデン)メチル]アンモニウム塩酸塩]	569-61-9	Prohibited/Observation	To be prohibited: Textile products other than clothing that come into contact with human skin To be controlled: Applications other than those prohibited	To be prohibited: Textile products other than clothing that come into contact with human skin. 50 To be controlled: Relative to the weight of component parts and materials 1000	●													●		●		
Arsenic and its compounds, all members	ヒ素およびその化合物、全て					●																	
Cadmium arsenide (Cd3As2)	ヒ化カドミウム	12006-15-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●															
Chromium arsenide (Cr2As)	ヒ化クロム	12254-85-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●															
Lead arsenate	ヒ酸鉛	3687-31-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●	●														
Lead arsenate	ヒ酸鉛	7784-40-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●	●										●				
Lead arsenate (Pb3(AsO4)2)	亜ヒ酸鉛(ii)	10102-48-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Lead arsenate, unspecified	ヒ酸鉛(混合)	7645-25-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Lead arsenite	亜ヒ酸鉛	10031-13-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Mercuric arsenate	ヒ酸第二水銀(HgAsHO4)	7784-37-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,6-Dimethyl-4-(1-naphthyl)pyrylium hexafluoroarsenate	2,6-ジメチル-4-(1-ナフチル)ピリウムヘキサフルオロアセネート	84282-36-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
2,6-Dimethyl-4-phenylpyrylium hexafluoroarsenate	2,6-ジメチル-4-フェニルピリウムヘキサフルオロアセネート	84304-15-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
4-Cyclohexyl-2,6-dimethylpyrylium hexafluoroarsenate	4-シクロヘキシル-2,6-ジメチルピリウムヘキサフルオロアセネート	84304-16-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
6,6'-Dihydroxy-3,3'-diarsene-1,2-diyldianilinium dichloride	6,6'-ジヒドロキシ-3,3'-ジアセニル-1,2-ジイリジウムジクロライド	139-93-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Aluminum arsenide (AlAs)	ヒ化アルミニウム	22831-42-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Aluminum gallium arsenide ((Al,Ga)As)	ヒ化アルミニウム・ガリウム	37382-15-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Ammonium arsenate	ヒ酸アンモニウム	7784-44-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Ammonium-magnesium-arsenat	アンモニウム・マグネシウム・ヒ酸混合物	14644-70-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Antimony arsenate	ヒ酸アンチモン	28980-47-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Antimony arsenic oxide	酸化ヒ素アンチモン	64475-90-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Antimony arsenide (Sb3As)	ヒ化アンチモン (Sb3As)	12255-36-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenargentite (Ag3As)	ヒ化銀 (Ag3As)	12417-99-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenate(1-), hexafluoro-, hydrogen	ヘキサフルオロヒ酸水素	17068-85-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenate(1-), hexafluoro-, lithium	六フッ化ヒ酸リチウム	29935-35-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenate(1-), hexafluoro-, potassium	ヘキサフルオロヒ酸カリウム	17029-22-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenous acid, lithium salt	亜ヒ酸リチウム塩	72845-34-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid	ヒ酸	1327-52-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid	ヒ酸	7778-39-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●	●	●													
Arsenic acid (H3AsO4), ammonium copper(2+) salt (1:1:1)	ヒ酸 (H3AsO4) アンモニウム銅 (1:1:1)	32680-29-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), barium salt (2:3)	ヒ酸 (H3AsO4) バリウム塩 (2:3)	13477-04-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), bismuth salt (1:1)	ヒ酸 (H3AsO4) ビスマス塩 (1:1)	13702-38-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), cobalt(2+) salt (2:3)	ヒ酸コバルト(II)	24719-19-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), copper salt	ヒ酸銅(II) (AsH3O4.xCu)	10103-61-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), copper(2+) salt (2:3)	ヒ酸銅(II) (Cu3(AsO4)2)	7778-41-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Arsenic acid (H3AsO4), dipotassium salt	砒酸(H3AsO4)二カリウム塩	21093-83-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), magnesium salt, manganese-doped	砒酸マグネシウム塩 マンガンドープ塗料	102110-21-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), monoammonium salt	砒酸二水素アモニウム塩	13462-93-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), strontium salt (2:3)	砒酸ストロンチウム塩 (2:3)	13464-68-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), trillithium salt	砒酸リチウム	13478-14-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), trisilver(1+) salt	砒酸銀	13510-44-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid, lead (4+) salt	砒酸鉛 (4+)塩	53404-12-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid, trisodium salt	砒酸ナトリウム	13464-38-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic bromide	砒酸ブロミド	64973-06-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic bromide	砒酸ブロミド	7784-33-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic chloride	砒化塩素	37226-49-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsino thioxo	二硫化二砒素	12044-79-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic sulfide (AsS2)	二硫化砒素	56320-22-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic pentoxide	五酸化二砒素	1303-28-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●	●	●	●	●								●					
Arsenic selenide (As2Se3)	三セレン化二砒素	1303-36-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic sulfide	五硫化砒素	12612-21-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic sulfide (As2S4)	四硫化二砒素	12344-68-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic telluride (As2Te3)	三テルル化二砒素	12044-54-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic trichloride	三塩化砒素	60646-36-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic trioxide	三酸化二砒素	1327-53-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●	●	●	●	●									●				
Arsenic trisulfide	三硫化二砒素	1303-33-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic, elemental	砒素	7440-38-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenopyrite, cobaltoan		12414-94-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenous acid, trisodium salt	亜砒酸三ナトリウム	13464-37-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenous trichloride	三塩化砒素	7784-34-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Arsenous triiodide	三ヨウ化ヒ素	7784-45-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Barium arsenide (Ba3As2)	ヒ化バリウム	12255-50-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Benzenediazonium, 3-methyl-4-(1-pyrrolidiny)-, hexafluoroarsenate(1-)	3-メチル-4-(1-ピロリジン)-2-イソキサゾールジアゾニウムヘキサフルオロアルミン酸(1-)	27569-09-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Benzenediazonium, 4-(diethylamino)-2-ethoxy-, hexafluoroarsenate(1-)	4-(ジエチルアミノ)-2-エトキシベンゼンジアゾニウムヘキサフルオロアルミン酸(1-)	63217-33-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Benzenediazonium, 4-(ethylamino)-2-methyl-, hexafluoroarsenate(1-)	4-(エチルアミノ)-2-メチルベンゼンジアゾニウムヘキサフルオロアルミン酸(1-)	63217-32-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Benzenesulfonic acid, 4-arsenoso-	4-アセチルソルホン酸	71130-51-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Benzenesulfonic acid, 4-arsenoso-, sodium salt	4-アセチルソルホン酸ナトリウム	71130-50-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Boron(1+), bis(2,4-pentanedionato-O,O')-, hexafluoroarsenate(1-)	ビス(2,4-ペンタネジオネート-O,O')のホウ素(1+)ヘキサフルオロアルミン酸(1-)	68892-01-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Calcium arsenate	ヒ酸カルシウム	10103-62-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Calcium arsenate	ヒ酸カルシウム	7778-44-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●	●														
Calcium arsenide (Ca3As2)	ヒ化カルシウム (Ca3As2)	12255-53-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Calcium arsenite	亜ヒ酸カルシウム	52740-16-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Calcium arsenite (2:1)	亜ヒ酸カルシウム(CaAsO4)	15194-98-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Calcium arsenite (2:3)	亜ヒ酸カルシウム(Ca3(AsO3)2)	27152-57-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Cobalt arsenide (CoAs)	ヒ化コバルト	27016-73-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Cobalt arsenide (CoAs2)	ヒ化コバルト (CoAs2)	12044-42-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Cobalt arsenide (CoAs3)	ヒ化コバルト (CoAs3)	12256-04-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Copper acetoarsenite	アセト亜ヒ酸銅	12002-03-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Copper arsenate	ヒ酸銅(II)(混合)	29871-13-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Copper arsenate hydroxide (Cu2(AsO4)(OH))	ヒ酸水酸化銅(Cu2(AsO4)(OH))	12774-48-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Copper arsenide (Cu3As)	ヒ化銅	12005-75-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Copper arsenite	亜ヒ酸銅	10290-12-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Copper arsenite	亜ヒ酸銅	33382-64-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Copper diarsenite	ビス(ヒ酸銅(II))	16509-22-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Diarsenic acid	ヒ酸	13453-15-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Diphenyldiarsenic acid	1,2-ジフェニル-1,2-ジアセニク酸	4519-32-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Disodium hydrogen arsenate (Arsenic acid (H3AsO4), disodium salt, heptahydrate)	七水素水素二ナトリウム七水和物	10048-95-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Disodium hydrogen arsenate (Arsenic acid (H3AsO4), sodium salt (1:2))	二ナトリウム七水素水素二ナトリウム	7778-43-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Dysprosium arsenide (DyAs)	化セリウム	12005-81-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Erbium arsenide (ErAs)	化エルビウム	12254-88-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Europium arsenide (EuAs)	化ユーロピウム(EuAs)	32775-46-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Ferric arsenate	砒酸鉄(Ⅲ)	10102-49-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Ferric arsenite	亜砒酸第二鉄五水和物	63989-69-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Ferrous arsenate	砒酸第一鉄	10102-50-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Gadolinium arsenide (GdAs)	化ガドリウム	12005-89-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Gallium arsenide	一七化ガリウム	1303-00-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●										●		●		
Gallium arsenide phosphide		106097-61-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Digallium arsenide phosphide	ガリウム砒素(2:1:1)	12044-20-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Gallium zinc triarsenide	三七化ガリウム亜鉛	98106-56-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Germanium arsenide (GeAs)	化ゲルマニウム (GeAs)	12271-72-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Holmium arsenide (HoAs)	化ホルミウム	12005-92-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Indium arsenide (InAs)	一七化インジウム	1303-11-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Iodonium, diphenyl-, hexafluoroarsenate(1-)	ジフェニル六フルオロアセニク酸(1-)の塩	62613-15-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Iron arsenide (Fe2As)	七化鉄(1:2)	12005-88-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Iron arsenide (FeAs)	一七化鉄	12044-16-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Iron arsenide (FeAs2)	二七化鉄	12006-21-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Lanthanum arsenide (LaAs)	化ランタニウム	12255-04-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Lithium arsenide (Li3As)	化リチウム	12044-22-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Lutetium arsenide (LuAs)	化ルテチウム	12005-94-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Magnesium arsenate	七水素水素二ナトリウム	10103-50-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Magnesium arsenide (Mg3As2)	マグネシウム亜砒素	12044-49-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Manganese arsenide (Mn2As)	マンガン亜砒素	12005-96-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Manganese arsenide (MnAs)	マンガン亜砒素	12005-95-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Manganese hydrogenarsenate	酸性マンガン酸	7784-38-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Metaarsenic acid	メタ亜砒素	10102-53-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Methylum, triphenyl-, hexafluoroarsenate(1-)	トリフェニルメチルヘキサフルオロ亜砒素(1-)	437-15-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
N-(p-Arsenosophenyl)-1,3,5-triazine-2,4,6-triamine	N-(p-アセノソフェニル)-1,3,5-トリアジン-2,4,6-トリアミン	21840-08-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Neodymium arsenide (NdAs)	ネオジム亜砒素	12255-09-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Nickel arsenide (NiAs)	ニッケル亜砒素	27016-75-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●											●			
Nickel diarsenide	ニッケル二亜砒素	12068-61-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●											●			
Niobium arsenide (NbAs)	ニオブ亜砒素	12255-08-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Platinum arsenide (PtAs2)	プラチナ亜砒素	12044-52-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Potassium arsenate	亜砒素カリウム	7784-41-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Potassium arsenide (K3As)	亜砒素カリウム	12044-21-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Potassium arsenite	亜亜砒素カリウム(AsH3O3 xK)	10124-50-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Potassium arsenite	亜亜砒素カリウム(AsH3O3 xK)	13464-35-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Praseodymium arsenide (PrAs)	プラセオジム亜砒素	12044-28-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Rammelsbergite (NiAs2)	ニッケル二亜砒素(NiAs2)	1303-22-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Samarium arsenide (SmAs)	サマリウム亜砒素	12255-39-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Silicic acid (H4SiO4), tetraethyl ester, polymer with arsenic oxide(As2O3)	酸化亜砒素(As2O3)によるホウ酸(H4SiO4)のポリマー	68957-75-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Silicon(1+), tris(2,4-pentanedionato-O,O'), (OC-6-11)-, hexafluoroarsenate(1-)	トリ(2,4-ペンタネジオネート-O,O')ホウ酸(1-)-ヘキサフルオロ亜砒素(1-)	67251-38-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Silver arsenide (Ag2As)	亜砒素銀	70333-07-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Sodium arsenate	亜砒素ナトリウム	7631-89-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Sodium arsenide (Na3As)	亜砒素ナトリウム	12044-25-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														
Sodium arsenite	亜亜砒素ナトリウム	7784-46-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Sodium metaarsenate	アセナートナトリウム	15120-17-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Strontium arsenide (Sr3As2)	ストロンチウムアセナート (Sr3As2)	39297-24-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Strontium arsenite	亜セニ酸ストロンチウム	15195-06-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Strontium arsenite	亜セニ酸ストロンチウム	91724-16-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Strychnidin-10-one, arsenite (1:1)	ストリキニジン-10-オン, 亜セニ酸塩(1:1)	100258-44-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Strychnine arsenate	ストリキニジン, セニ酸	10476-82-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Sulfonium, triphenyl-, hexafluoroarsenate(1-)	トリフェニルメチルセニウムヘキサフルオロアセナート	57900-42-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Terbium arsenide (TbAs)	セレン化テルビウム	12006-08-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Thallium arsenide (TIAs)	セレン化タリウム	12006-09-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Thallium triarsenide	三セレン化タリウム	84057-85-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Thulium arsenide (TmAs)	セレン化ツリウム	12006-10-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Triammonium arsenate	セニ酸トリアミン	24719-13-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Triethyl arsenate	セニ酸トリエチル	15606-95-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●		●											●				
Triethyl arsenite	トリエチル亜セニ酸	3141-12-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Trimanganese arsenide	セレン化三マンガーン	61219-26-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Trinickel bis(arsenate)	セニ酸ニッケル	13477-70-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●										●				
Tris[(8a)-6'-methoxycinchonan-9(R)-ol] arsenite	トリス[(8a)-6'-メトキシシンコナン-9(R)-オール] 亜セニ酸塩	94138-87-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Tris[(8a,9R)-6'-methoxycinchonan-9-ol] bis(arsenate)	トリス[(8a,9R)-6'-メトキシシンコナン-9-オール] セニ酸塩	549-59-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Vanadium(4+) diarsenate (1:1)	二セニ酸バナジウム(IV)(1:1)	99035-51-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Ytterbium arsenide (YbAs)	セレン化イテリウム	12006-12-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Yttrium arsenide (YAs)	セレン化イットリウム	12255-48-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Zinc arsenate oxide (Zn5(AsO3)4O3), tetrahydrate	セニ酸亜鉛	1303-39-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsenic acid (H3AsO4), zinc salt (2:3)	セニ酸亜鉛	13464-44-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Zinc arsenide (Zn3As2)	二セレン化三亜鉛	12006-40-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Zinc arsenide (ZnAs2)	二セレン化1亜鉛	12044-55-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														

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Zinc arsenite	亜砒酸亜鉛	10326-24-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Zirconium arsenide (ZrAs)	亜砒酸ジルコニウム	60909-47-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsorous acid	砒酸	13464-58-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Arsin	アールシン	7784-42-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Diphenoxarsin-10-yloxid	ビス(10H-フェノキサリノ-10-イル)アールシン	58-36-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Trisilverarsenite	亜砒酸銀	7784-08-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	●			●														
Slimes and Sludges, copper electrolytic refining, decopperized, arsenic-rich		100995-81-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Slimes and Sludges, copper-lead ore roasting off gas scrubbing, arsenic-contg.		102110-62-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Sodium hexafluoroarsenate(V)		12005-86-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Sodium cacodylate trihydrate		6131-99-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Disodium 3,6-bis[(o-aronophenyl)azo]-4,5-dihydroxynaphthalene-2,7-disulphonate		62337-00-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Cobalt arsenide		65453-05-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Slimes and Sludges, copper refining		67712-00-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Silicic acid (H4SiO4), zinc salt (1:2), arsenic and manganese-doped		68611-46-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Antimony oxide (Sb2O3), mixed with arsenic oxide (As2O3)		68951-38-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Oxophenarsine		306-12-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Neoarsphenamine		457-60-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Oxophenarsine hydrochloride		538-03-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Sulfarsphenamine		618-82-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Phenylarsine oxide		637-03-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Dimethylarsinic acid		75-60-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●												●		
Roxarsone		121-19-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Sodium dimethylarsinate		124-65-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Disodium 4-[(o-aronophenyl)azo]-3-hydroxynaphthalene-2,7-disulphonate		3688-92-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Flue dust, lead-refining		69029-67-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														

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Trifluoroarsine		7784-35-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Pentafluoroarsorane		7784-36-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Pentahydroxyarsorane		7786-36-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Flue dust, arsenic-contg.		8028-73-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Sodium 4-(glycolloylamino)phenylarsionate		7681-83-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Strychnine dimethylarsinate		10476-87-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Methyltriphenylarsonium iodide		1499-33-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
2,7-(bis(2-arsonophenylazo))-1,8-dihydroxynaphthalene-3,6-disulphonic acid		1668-00-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
o-phenylenediarsonic acid		1758-48-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Sodium p-[[4-[3-(2-arsono-4-nitrophenyl)triazen-1-yl]phenyl]azo]benzenesulphonate		1772-02-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
2-aminophenylarsonic acid		2045-00-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
3-amino-4-hydroxyphenylarsonic acid		2163-77-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Sodium methylarsonate		2163-80-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
o-phenylenebis(dimethylarsine)		13246-32-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Melarsonyl potassium		13355-00-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Thiobis[methylarsine], anhydrosulphide		13367-92-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Disodium hydrogen 2-[[7-[(2-arsonophenyl)azo]-1,8-dihydroxy-3,6-disulphonato-2-naphthyl]azo]benzoate		14674-83-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
2,2'-[ethylenebis(oxy)]bis[1,3,2-dioxarsolane]		14849-23-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Chlorotris(triphenylarsine)rhodium		14973-92-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Proustite (Ag <sub>3</sub> (AsS <sub>3</sub> ))		15122-58-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Tetraphenylarsonium (hydrogen dichloride)		21006-73-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Methylenebis(diphenylarsine)		21892-63-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Diphenylarsinecarbonitrile		23525-22-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Bis[(2-diphenylarsinoethyl)phenyl]phosphine		23582-05-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
[2-(diphenylarsino)ethyl]diphenylphosphine		23582-06-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Trisodium 4-[(o-arsonophenyl)azo]-3-oxidonaphthalene-2,7-disulphonate		53669-45-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Acetarsol sodium		55588-51-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
3-formamido-4-hydroxyphenylarsonic acid		60154-16-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Bromo(hydroxytetraphenylarsoranato)magnesium		63468-73-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Trisodium 3-[(o-arsonatophenyl)azo]-4,5-dihydroxynaphthalene-2,7-disulphonate		66019-20-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Tetramethyldiarsine		471-35-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Melarsoprol		494-79-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Tetraphenylarsonium bromide		507-27-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Tetraphenylarsonium chloride		507-28-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Difetarsonic disodium		515-76-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Trisodium 2-(hydrogen arsonatophenylazo)-1,8-dihydroxynaphthalene-3,6-disulphonate		520-10-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Acetarsol--diethylamine (1:1)		534-33-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Tryparsamide		554-72-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
10-chloro-5,10-dihydrophenarsazine		578-94-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Sodium hydrogen [4-(acetamido)phenyl]arsonate		585-54-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Allylarsonic acid		590-34-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Methyloarsine		593-58-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Trimethylarsine		593-88-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Dichloro(ethyl)arsine		598-14-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Triphenylarsine		603-32-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Triethylarsine		617-75-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
4-acetamidophenylarsonic acid		618-22-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
4-(4-dimethylaminophenylazo)phenylarsonic acid		622-68-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Iododimethylarsine		676-75-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Dichloro(phenyl)arsine		696-28-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Chlorodiphenylarsine		712-48-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Diphenylarsine		829-83-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Methyl 1,2,5,6-tetrahydro-1-methylnicotinate, mono[(3-acetamido-4-hydroxyphenyl)arsonate]		900-77-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Methyldiphenylarsine		945-48-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Triphenylarsine oxide		1153-05-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Acetarsole		97-44-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Phenylarsonic acid		98-05-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
4-hydroxyphenylarsonic acid		98-14-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsanilic acid		98-50-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Nitarsole		98-72-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Propylarsonic acid		107-34-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Glycobiarsol		116-49-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsthiol		119-96-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Carbarsole		121-59-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Methylarsonic acid		124-58-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Disodium arsonoacetate		126-82-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Sodium hydrogen 4-aminophenylarsonate		127-85-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
4-[(2-aronophenyl)azo]-3-hydroxynaphthalene-2,7-disulphonic acid		132-33-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Sodium hydrogen [4-[(hydroxyacetyl)amino]phenyl]arsonate		140-45-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Disodium methylarsonate		144-21-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
4-(glycolloylamino)phenylarsonic acid		144-87-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
10-chloro-10H-phenoxarsine		2865-70-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Tri-p-tolylarsine		2896-10-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Disodium 3-[(o-arsonophenyl)azo]-4,5-dihydroxynaphthalene-2,7-disulphonate		3547-38-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Disodium [4-[(4,6-diamino-1,3,5-triazin-2-yl)amino]phenyl]arsonate		3599-28-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Difetarstone		3639-19-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
2-[[7-[(2-arsonophenyl)azo]-1,8-dihydroxy-3,6-disulpho-2-naphthyl]azo]benzoic acid		3772-44-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
p-tolylarsonic acid		3969-54-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Ethylenebis(diphenylarsine)		4431-24-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
10-[(dimethylthiocarbamoyl)thio]-5,10-dihydrophenarsazine		4808-24-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
2-nitrophenylarsonic acid		5410-29-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
4-(2-chloroacetamido)phenylarsonic acid		5425-62-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
4-chlorophenylarsonic acid		5440-04-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Calcium bis(dimethylarsinate)		5785-43-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
[4-[(4,6-diamino-1,3,5-triazin-2-yl)amino]phenyl]arsonic acid		5806-89-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Sodium hydrogen (3-acetamido-4-hydroxyphenyl)arsonate		5892-48-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Calcium bis(methylarsonate)		5902-95-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Iron tris(dimethylarsinate)		5968-84-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Diiodo(phenyl)arsine		6380-34-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Sodium p-arsonobenzenesulphonate		6634-88-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
4-(4-aminophenylazo)phenylarsonic acid		6966-64-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
iron;iron(3+);methyl-dioxido-oxo- $\text{S}^{\text{V}}$ -arsane		6585-53-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Tetraphenylarsonium chloride, compound with hydrochloric acid (1:1)		73003-83-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Strychnidin-10-one, compd. with methylarsonate (1:1)		80879-64-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Methyl 17 $\alpha$ -hydroxyyohimban-16 $\alpha$ -carboxylate, methylarsonate (1:1)		80925-03-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															
Disodium 3,6-bis[[2-[[[dihydroxyarsino]oxy]phenyl]azo]-4,5-dihydroxynaphthalene-2,7-disulphonate		84215-47-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●															

5. List of NSK Environmentally Harmful Substances (details)

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Leucomycin V, 9-O-[5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]-, [9(5S,6R)]-, [1,2-ethanediy]bis(imino-4,1-phenylene)]bis[arsonate] (1:1) (salt)		93841-79-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
(diphenylarsino)dimethylgallium		94113-53-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
(4-aminophenyl)arsonic acid, compound with piperazine (1:1)		94232-26-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Sodium hydrogen allylarsonate		94278-22-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Disodium p-tolylarsonate		94313-58-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsonic acid, [4-[[4-(dimethylamino)phenyl]azo]phenyl]-, monohydrochloride		73688-85-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Tetraphenylarsonium Chloride Hydrochloride Hydrate		123334-18-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Disodium 3-[[2-[[[2-(dihydroxyarsino)oxy]phenyl]azo]-4,5-dihydroxynaphthalene-2,7-disulphonate		84215-48-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Dibismuth tris(methylarsonate)		85237-42-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic acid (H3AsO4), monosodium salt		10103-60-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Diarsenic acid, sodium salt		13464-42-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, lead(2+) salt (1:1)		100822-74-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic acid (H3AsO4), copper(2+) salt (4:1)		102525-64-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
4-Aminophenylarsenoxide		1122-90-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Magnesium arsenate, decahydrate		117746-50-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Boron arsenide (BAs)		12005-69-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Boron arsenide (B6As)		12005-70-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic acid (H3AsO4), lead(2+) salt (2:3), tetrahydrate		120119-64-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Tin arsenide (SnAs)		12044-32-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Tetraarsenic tetrasulfide		12279-90-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, antimony(3+) salt (1:1)		12523-20-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic selenide		12626-31-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic oxide		12777-38-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic acid (H3AsO4), ammonium salt (2:1)		127795-79-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														

5. List of NSK Environmentally Harmful Substances (details)

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Nickel arsenide		12795-30-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic acid (H3AsO4), copper(2+) salt (1:1)		13464-31-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic acid, tripotassium salt		13464-36-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic acid, calcium salt (1:2)		13464-39-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsonic acid, disodium salt		13466-06-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Boron arsenate		13510-31-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Zinc arsenate, octahydrate		13510-72-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenous acid		13768-07-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Calcium arsenate fluoride		17068-86-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic chloride (AsCl)		17522-78-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic acid (H3AsO4), magnesium salt (2:3)		21480-65-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic pentachloride		22441-45-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenous acid, gallium salt (1:1)		24343-41-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Manganese arsenate		27526-45-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenous acid, zinc salt (2:3)		28837-97-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic acid (H3AsO4), cobalt(2+) salt		29871-10-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
arsenic acid (H3AsO4), calcium salt(2:3), dihydrate		30621-31-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsine oxide, dichloro(2-chlorovinyl)-		333-25-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenic acid (H3AsO4), lead(4+) salt (2:1), monohydrate		33940-95-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsonic acid, methyl-, iron salt (9CI)		33972-75-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenous acid, nickel(2+) salt		33992-49-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsenous acid, tripotassium salt		36267-15-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsonate		36465-76-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Iron arsenide		39310-41-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														
Arsine, bis(2-chlorovinyl)chloro-		40334-69-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Arsine, tris(2-chloroethyl)-		40334-70-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic chloride (AsCl <sub>2</sub> )		41996-37-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
(2-Chloroethyl)arsonous dichloride		541-25-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Silver hexafluoroarsenate		12005-82-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic sulfide (As <sub>2</sub> S <sub>5</sub> )		1303-34-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic disulfide		1303-32-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenazo III sodium		138608-19-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
(Carboxymethyl)trimethylarsonium hydroxide inner salt		64436-13-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Calcium arsenate (CaHAsO <sub>4</sub> ) (6Cl,7Cl)		15195-00-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsine, dichloromethyl-		593-89-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), magnesium manganese(2+) zinc salt, arsenic and lead-doped		68784-76-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, silver(1+) salt		69507-43-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, copper(2+) salt, hydrate, (2:3:3)		73156-86-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, neodymium(3+) salt		76871-63-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, lutetium(3+) salt		76871-65-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, cadmium neodymium(3+) salt (5:1:1)		76871-66-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic acid (H <sub>3</sub> AsO <sub>4</sub> ), copper(2+) salt (2:3)	砒酸銅(Ⅱ)(Cu <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> )	76407-89-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, cesium salt		82005-78-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, mercury(2+) salt		82980-40-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, antimony(3+) salt		83877-96-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, cadmium salt		84953-43-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, cobalt(2+) salt		85561-28-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, manganese(2+) salt		85561-29-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, rubidium salt		85906-44-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenic acid (H <sub>3</sub> AsO <sub>4</sub> ), calcium salt (7:10)		85949-61-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Arsenous acid, praseodymium(3+) salt		86859-92-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenous acid, cerium(3+) salt		86859-93-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenic acid (H3AsO4), copper(2+) salt (1:1), sesquihydrate		88442-64-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenic acid (H3AsO4), copper(2+) salt (4:5)		89054-01-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenic acid (H3AsO4), lead(2+) salt (4:5)		89054-03-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
arsenic acid, calcium salt		89054-07-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenic acid (H3AsO4), calcium salt (4:5)		89067-81-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenous acid, titanium salt		92278-94-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsonic acid, tin salt		93080-00-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenous acid, ammonium copper salt		94854-78-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenous acid, ammonium zinc salt		94854-80-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
ARSENIC ACID (H3ASO4), HEMIHYDRATE		7774-41-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsonic acid, methyl-, calcium salt (1:1)		6423-72-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
trisodium;trioxido(oxo)-\$I^{5}\$-arsane;dodecahydrate		13510-46-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenic acid (H3AsO4), monopotassium salt, 1/5hydrate		164170-84-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Tripotassium arsenate 3/2hydrate		62702-52-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Tin arsenide (Sn4As3)		12397-66-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenous acid, tricopper(1+) salt, ammoniated		37337-11-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenic tetrasulfide		56729-51-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsonic acid, monoammonium salt		54058-01-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Tetraarsenic trisulfide		12512-13-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
[No public or meaningful name is available]		16973-45-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsenic tetrachloride fluoride		87198-15-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															
Arsonic acid, lead(2+) salt (1:1)		109882-46-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Zinc arsenide		56450-43-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsenous acid, iron(3+) salt (1:1)		60168-33-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Sodium oxidoarsenous acid		60189-99-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Gallium arsenic phosphide		60953-19-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Strontium arsenide (SrAs3)		61462-16-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
(4-((2-Amino-2-oxoethyl)amino)phenyl)arsonic acid		618-25-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Arsonic acid, methyl-, compd. with 1-octanamine (1:1)		6379-37-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500				●														
Asbestos fibers, all members	アスベスト繊維、全て					●																	
Asbestos, actinolite	石棉(アキノウライト)	77536-66-4	Prohibited	All applications and products	Intentional addition	●	●		●							●			●				●
Asbestos, amosite	石棉(アモサイト)	12172-73-5	Prohibited	All applications and products	Intentional addition	●	●		●							●			●				●
Asbestos, anthophyllite	石棉(アンソファイト)	77536-67-5	Prohibited	All applications and products	Intentional addition	●	●		●							●			●				●
Asbestos, chrysotile	石棉(クリソタイル)	12001-29-5	Prohibited	All applications and products	Intentional addition	●	●		●							●			●				●
Asbestos, crocidolite	石棉(クロシドライト)	12001-28-4	Prohibited	All applications and products	Intentional addition	●	●		●							●			●				●
Asbestos, Tremolite	石棉(トレモライト)	77536-68-6	Prohibited	All applications and products	Intentional addition	●	●		●							●			●				●
Asbestos minerals, all members	アスベスト鉱物、全て					●																	
Asbestos	アスベスト	1332-21-4	Prohibited	All applications and products	Intentional addition	●	●									●							●
Actinolite	アキノウライト	13768-00-8	Prohibited	All applications and products	Intentional addition	●																	●
Tremolite	トレモライト(ファイバー/アスベスト)	14567-73-8	Prohibited	All applications and products	Intentional addition	●																	●
Anthophyllite	アンソファイト	17068-78-9	Prohibited	All applications and products	Intentional addition	●																	●
Actinolite	アキノウライト	12172-67-7	Prohibited	All applications and products	Intentional addition	●																	●
Chrysotile	蛇紋石石棉 (クリソタイル)	132207-32-0	Prohibited	All applications and products	Intentional addition	●			●														●
Azodyes that can form carcinogenic amines, selected	発がん性アミンを生成する可能性のあるアゾ染料、抜粋					●																	
C.I. Acid Black 29	C.I.アゾ染料ブラック29	12217-14-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Black 94, C.I.30336	C.I.アゾ染料ブラック94, C.I.30336	6358-80-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Black 131	C.I.アゾ染料ブラック131	12219-01-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Acid Black 132	C.I. アザイトブラック 132	12219-02-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Black 209	C.I. アザイトブラック 209	72827-68-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Brown 415	C.I. アザイトブラック 415	97199-27-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Orange 45, C.I.22195	C.I. アザイトオレンジ 45, C.I.22195	2429-80-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 4, C.I.14710	C.I. アザイトレッド 4, C.I.14710	5858-39-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 5, C.I.14905	C.I. アザイトレッド 5, C.I.14905	5858-63-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 24, C.I.16140	C.I. アザイトレッド 24, C.I.16140	5858-30-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 35, C.I.18065	C.I. アザイトレッド 35, C.I.18065	6441-93-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 85, C.I.22245	C.I. アザイトレッド 85, C.I.22245	3567-65-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Acid Red 104, C.I.26420	C.I. アザイトレッド 104, C.I.26420	8006-06-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 114, C.I.23635	C.I. アザイトレッド 114, C.I.23635	6459-94-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●															●		
C.I. Acid Red 115, C.I.27200	C.I. アザイトレッド 115, C.I.27200	8005-61-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 116, C.I.26660	C.I. アザイトレッド 116, C.I.26660	6245-62-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 119:1	C.I. アザイトレッド 119:1	90880-75-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 128, C.I.24125	C.I. アザイトレッド 128, C.I.24125	6548-30-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Acid Red 148, C.I.26665	C.I.アザイト*レッド 148. C.I.26665	6300-53-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 150, C.I.27190	C.I.アザイト*レッド 150. C.I.27190	6226-78-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 158, C.I.20530	C.I.アザイト*レッド 158. C.I.20530	8004-55-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 167	C.I.アザイト*レッド 167	61901-41-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 264, C.I.18133	C.I.アザイト*レッド 264. C.I.18133	6505-96-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Red 265, C.I.18129	C.I.アザイト*レッド 265. C.I.18129	6358-43-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Acid Violet 12, C.I.18075	C.I.アザイト*ブルー/イソレッド 12. C.I.18075	6625-46-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Basic Brown 4, C.I.21010	C.I.ア*ソウカク*アザイト 4. C.I.21010	5421-66-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Basic Red 42	C.I.ア*ソウカク*レッド 42	12221-66-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Basic Red 76, C.I.12245	C.I.ア*ソウカク*レッド 76. C.I.12245	68391-30-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Basic Red 111	C.I.ア*ソウカク*レッド 111	118658-98-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Yellow 82		12227-67-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Black 4, C.I.30245	C.I.ア*イソカク*アザイト 4. C.I.30245	2429-83-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●			●														
C.I. Direct Black 29, C.I.22580	C.I.ア*イソカク*アザイト 29. C.I.22580	3626-23-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Black 38, C.I.30235	C.I.ア*イソカク*アザイト 38. C.I.30235	1937-37-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●	●	●	●										●		●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Direct Black 154	C.I.染料ブラック154	37372-50-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 1, C.I.24410	C.I.染料ブルー1-C.I.24410	2610-05-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 2, C.I.22590	C.I.染料ブルー2-C.I.22590	2429-73-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Blue 3, C.I.23705	C.I.染料ブルー3-C.I.23705	2429-72-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 6, C.I.22610	C.I.染料ブルー6-C.I.22610	2602-46-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●									●				●		
C.I. Direct Blue 8, C.I.24140	C.I.染料ブルー8-C.I.24140	2429-71-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 9, C.I.24155	C.I.染料ブルー9-C.I.24155	6428-98-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 10, C.I.24340	C.I.染料ブルー10-C.I.24340	4198-19-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 14, C.I.23850	C.I.染料ブルー14-C.I.23850	72-57-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●														●	
C.I. Direct Blue 15, C.I.24400	C.I.染料ブルー15-C.I.24400	2429-74-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																●	
C.I. Direct Blue 21, C.I.23710	C.I.染料ブルー21-C.I.23710	6420-09-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 22, C.I.24280	C.I.染料ブルー22-C.I.24280	2586-57-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 25, C.I.23790	C.I.染料ブルー25-C.I.23790	2150-54-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 35, C.I.24145	C.I.染料ブルー35-C.I.24145	6473-33-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Blue 151, C.I.24175	C.I.染料ブルー151-C.I.24175	110735-25-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
C.I. Direct Blue 160	C.I.染料ブルー160	12222-02-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Blue 173	C.I.染料ブルー173	12235-72-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Blue 192	C.I.染料ブルー192	71838-51-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Blue 215, C.I.24415	C.I.染料ブルー215.C.I.24415	6771-80-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Blue 295, C.I.23820	C.I.染料ブルー295.C.I.23820	6420-22-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Brown 1, C.I.30045	C.I.染料ブラウン1.C.I.30045	3811-71-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●																
C.I. Direct Brown 1:2, C.I.30110	C.I.染料ブラウン1:2.C.I.30110	2586-58-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Brown 2, C.I.22311	C.I.染料ブラウン2.C.I.22311	2429-82-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●																
C.I. Direct Brown 6, C.I.30140	C.I.染料ブラウン6.C.I.30140	2893-80-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●																
C.I. Direct Brown 25, C.I.36030	C.I.染料ブラウン25.C.I.36030	33363-87-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Brown 27, C.I.31725	C.I.染料ブラウン27.C.I.31725	6360-29-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Brown 31, C.I.35660	C.I.染料ブラウン31.C.I.35660	2429-81-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●																
C.I. Direct Brown 33, C.I.35520	C.I.染料ブラウン33.C.I.35520	1324-87-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Brown 51, C.I.31710	C.I.染料ブラウン51.C.I.31710	4623-91-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																		
C.I. Direct Brown 59, C.I.22345	C.I.染料ブラウン59.C.I.22345	3476-90-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Direct Brown 74, C.I.36300	C.I.ダイレクトブラウン74.C.I.36300	8014-91-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Brown 79, C.I.30050	C.I.ダイレクトブラウン79.C.I.30050	6483-77-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Brown 95, C.I.30145	C.I.ダイレクトブラウン95.C.I.30145	16071-86-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●											●		●		
C.I. Direct Brown 101, C.I.31740	C.I.ダイレクトブラウン101.C.I.31740	3626-29-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Brown 154, C.I.30120	C.I.ダイレクトブラウン154.C.I.30120	6360-54-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Brown 222, C.I.30368	C.I.ダイレクトブラウン222.C.I.30368	64743-15-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Brown 223	C.I.ダイレクト ブラウン 223	76930-14-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Green 1, C.I.30280	C.I.ダイレクトグリーン1.C.I.30280	3626-28-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Green 6, C.I.30295	C.I.ダイレクトグリーン6.C.I.30295	4335-09-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Green 8, C.I.30315	C.I.ダイレクトグリーン8.C.I.30315	5422-17-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Green 8:1	C.I.ダイレクトグリーン8:1	76012-70-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Green 85, C.I.30387	C.I.ダイレクトグリーン85.C.I.30387	72390-60-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Orange 1, C.I.22370	C.I.ダイレクトオレンジ1.C.I.22370	54579-28-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Orange 6	ダイレクトオレンジ6	6637-88-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Orange 7, C.I.23380	C.I.ダイレクトオレンジ7.C.I.23380	2868-76-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Direct Orange 8, C.I.22130	C.I.9 イルカトレンヂ*8. C.I.22130	2429-79-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Orange 10, C.I.23370	C.I.9 イルカトレンヂ*10. C.I.23370	6405-94-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Orange 108, C.I.29173	C.I.9 イルカトレンヂ*108. C.I.29173	6358-79-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 1, C.I.22310	C.I.9 イルカトレンヂ*1. C.I.22310	2429-84-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
C.I. Direct Red 2, C.I.23500	C.I.9 イルカトレンヂ*2. C.I.23500	992-59-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 7, C.I.24100	C.I.9 イルカトレンヂ*7. C.I.24100	2868-75-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 10, C.I.22145	C.I.9 イルカトレンヂ*10. C.I.22145	2429-70-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 13, C.I.22155	C.I.9 イルカトレンヂ*13. C.I.22155	1937-35-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 17, C.I.22150	C.I.9 イルカトレンヂ*17. C.I.22150	2769-07-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 21, C.I.23560	C.I.9 イルカトレンヂ*21. C.I.23560	6406-01-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 22, C.I.23565	C.I.9 イルカトレンヂ*22. C.I.23565	6448-80-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 24, C.I.29185	C.I.9 イルカトレンヂ*24. C.I.29185	6420-44-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 26, C.I.29190	C.I.9 イルカトレンヂ*26. C.I.29190	3687-80-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 28, C.I.22120	C.I.9 イルカトレンヂ*28. C.I.22120	573-58-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●	●	●	●										●				
C.I. Direct Red 37, C.I.22240	C.I.9 イルカトレンヂ*37. C.I.22240	3530-19-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Direct Red 39, C.I.23630	C.I.染料赤39. C.I.23630	6358-29-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 44, C.I.22500	C.I.染料赤44. C.I.22500	2302-97-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 46, C.I.23050	C.I.染料赤46. C.I.23050	6548-29-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 62, C.I.29175	C.I.染料赤62. C.I.29175	6420-43-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 67, C.I.23505	C.I.染料赤67. C.I.23505	6598-56-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Red 72, C.I.29200	C.I.染料赤72. C.I.29200	8005-64-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Violet 1, C.I.22570	C.I.染料紫1. C.I.22570	2586-60-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Violet 4, C.I.22555	C.I.染料紫4. C.I.22555	6472-95-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Violet 12, C.I.22550	C.I.染料紫12. C.I.22550	2429-75-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Violet 13, C.I.2480	C.I.染料紫13. C.I.2480	13478-92-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Violet 21, C.I.23520	C.I.染料紫21. C.I.23520	6470-45-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Violet 22, C.I.22480	C.I.染料紫22. C.I.22480	6426-67-1	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●			●														
C.I. Direct Yellow 1, C.I.22250	C.I.染料黄1. C.I.22250	6472-91-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Yellow 24, C.I.22010	C.I.染料黄24. C.I.22010	6486-29-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Direct Yellow 48, C.I.23660	C.I.染料黄48. C.I.23660	6459-97-8	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Disperse Orange 60	C.I.7 イソノール-スルホン 60	12270-44-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Disperse Orange 149	C.I.7 イソノール-スルホン 149	151126-94-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Disperse Red 151, C.I.26130	C.I.7 イソノール-スルホン 151. C.I.26130	61968-47-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Disperse Red 221	C.I.7 イソノール-スルホン 221	64426-35-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Disperse Yellow 7, C.I.26090	C.I.7 イソノール-スルホン-7. C.I.26090	6300-37-4	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Disperse Yellow 23, C.I.26070	C.I.7 イソノール-スルホン-23. C.I.26070	6250-23-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Disperse Yellow 56	C.I.7 イソノール-スルホン-56	54077-16-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Disperse Yellow 218	C.I.7 イソノール-スルホン-218	83929-90-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Mordant Yellow 16	C.I.7 イソノール-スルホン-16	8003-87-0	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 1, C.I.12150	C.I.7 イソノール-スルホン-1. C.I.12150	1229-55-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 19, C.I.26050	C.I.7 イソノール-スルホン-19. C.I.26050	6368-72-5	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 23, C.I.26100	C.I.7 イソノール-スルホン-23. C.I.26100	85-86-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 24, C.I.26105	C.I.7 イソノール-スルホン-24. C.I.26105	85-83-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 26, C.I.26120	C.I.7 イソノール-スルホン-26. C.I.26120	4477-79-6	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 68	C.I.7 イソノール-スルホン-68	61813-90-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Solvent Red 69, C.I.27290	C.I.ソルベントレッド69, C.I.27290	5413-75-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 164	ソルベントレッド164	71819-51-7	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Red 215	C.I.ソルベントレッド215	85203-90-3	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
C.I. Solvent Yellow 72	C.I.ソルベントイエロー72	4645-07-2	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●																	
Trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromate(1-)		118685-33-9	Prohibited/Reduced	To be prohibited: substances in contact with the human body continuously for a long period of time To be reduced: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●		●															
Barium compounds (organic or water soluble), selected	バリウム化合物 (有機または水溶性)、抜粋					●																	
Barium	バリウム	7440-39-3	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium 2-(2-hydroxy-3,6-disulphonato-1-naphthyl)azo benzoate (3:2)	ビフェニルアゾベンゼン酸 60:1	15782-06-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium 4- (5-chloro-4-methyl-2-sulphonatophenyl)azo -3-hydroxy-2-naphthoate	ビフェニルアゾベンゼン酸 48:1	7585-41-3	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium 4-(1,1-dimethylethyl)benzoate	バリウムジイソプロピル安息香酸バリウム	10196-68-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium bis 5-chloro-4-ethyl-2- (2-hydroxy-1-naphthyl)azo benzenesulp...	バリウムビス(5-クロロ-4-エチル-2-(2-ヒドロキシ-1-ナフチルアゾ)ベンゼン硫酸)	67801-01-8	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium bis(2-ethylhexanoate)	バリウムビス(2-エチルヘキサン酸)	2457-01-4	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium bis(dinonylnaphthalenesulphonate)	バリウムビス(ジノニルナフタレン硫酸)	25619-56-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium bis(nonylphenolate)	バリウムビス(ノニルフェノール塩(Ba,Cd,C	28987-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium distearate	ステアリン酸バリウム	6865-35-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium oxide, obtained by calcining witherite	酸化バリウム	1304-28-5	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium(2+) hydrogen 2- (2-hydroxy-3,6-disulphonato-1-naphthyl)azo benzoate	2-((2-ヒドロキシ-3,6-ジスルフォ-1-ナフチルアゾ)安息香酸)バリウム	1325-16-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-chlorate	塩素酸バリウム	13477-00-4	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-chloride	塩化バリウム	10361-37-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-cyanide	シアニドバリウム	542-62-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-dilaurate	ラウリン酸バリウム	4696-57-5	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-dioleate	オレイン酸バリウム	591-65-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-fluoride	フッ化バリウム	7787-32-8	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-hydroxide	水酸化バリウム無水物	17194-00-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-hydroxide-octahydrate	水酸化バリウム八水和物	12230-71-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Barium-neodecanoate	ネオデカノ酸バリウム	55172-98-0	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-nitrate	硝酸バリウム	10022-31-8	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-perchlorate	過塩素酸バリウム	13465-95-7	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●	●																
Barium-permanganate	過マンガン酸バリウム	7787-36-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-peroxide	過酸化バリウム	1304-29-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Barium-sebacate	セバ酸バリウム	19856-32-7	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Naphthenic acid, Barium salts	ナフテン酸バリウム塩	61789-67-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	
Benzene	ベンゼン		Prohibited	All applications and products except fuel	For solid components 1000 Textile products other than clothing that come in contact with human skin 50	●																	
Benzene		71-43-2	Observation	Fuel	Concentration in fuel 10000	●		●							●				●		●		
Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl-2,4,6-trinitro- (Musk xylene)	2,4,6-トリニトロ-5-tert-ブチル-1,3-キシレン(ムスクキシレン)	81-15-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●	●					●									
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride		552-30-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●															
1,4-Benzenediamine, N,N' -mixed phenyl and tolyl derivs	1,4-ヘンチンジアミン	68953-84-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●							●										
N, N'-di-4-tolyl-1,4-phenylenediamine	N,N'-ジ-4-トリル-1,4-フェニレンジアミン	620-91-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000								●										
N, N'-di-2-tolyl-1,4-phenylenediamine	N,N'-ジ-2-トリル-1,4-フェニレンジアミン	15017-02-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000								●										
N, N'-ditolyl-1,4-phenylenediamine	N,N'-ジトリル-1,4-フェニレンジアミン	27417-40-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000								●										
N, N'-bis (dimethylphenyl) -1,4-phenylenediamine	N,N'-ビス(ジメチルフェニル)-1,4-フェニレンジアミン	28726-30-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000								●										
N- (dimethylphenyl) -N'-tolyl-1,4-phenylenediamine	N-(ジメチルフェニル)-N'-トリル-1,4-フェニレンジアミン	70290-05-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000								●										
1,4-Benzenediamine, N,N'-mixed Ph and tolyl and xylyl derivs.		68953-83-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
1,4-Benzenediamine, N,N'-mixed tolyl and xylyl derivs.		68478-45-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
1,4 Benzenediol (Hydroquinone)	1,4-ヘンチンジオール(ヒドロキノン)	123-31-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzenepropanoic acid, 3-(1,1-dimethylethyl)-4-hydroxy-5-methyl-, 1,2-ethanediybis(oxy-2,1-ethanediy) ester		36443-68-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzenesulfonic acid, C10-16-alkyl derivs.		68584-22-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzenesulfonic acid, C10-16-alkyl derivs, compds. with 2-propanamine		68584-24-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzenesulfonic acid,C10-13-alkyl derivs., sodium salts		68411-30-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzenesulfonic acid,dodecyl(sulfophenoxy)-, sodium salt (1:2)		28519-02-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzenesulfonic acid, oxybis[dodecyl-, disodium salt		25167-32-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
Benzenesulfonic acid, [[4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]phenyl]amino]- (Pigment Blue 61)		1324-76-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Benzidine and its salts, all members	ベンジジンおよびその塩、全て					●																		
Benzidine	ベンジジン	92-87-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●	●		●							●			●	●	●			
Benzidine acetate	ベンジジン アセテート	36341-27-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●										●					
Benzidine salt	硫酸ベンジジン	531-86-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●										●					
Benzidine sulphate	(1,1'-ビフェニル)-4,4'-ジアミン 硫酸塩	21136-70-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●										●					
Benzidine, Ni(2+) salt	ベンジジン, Ni(2+)塩	67632-50-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
[1,1'-Biphenyl]-4,4'-diamine, dihydrochloride	二塩酸ベンジジン	531-85-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●			●										●					
[1,1'-Biphenyl]-4,4'-diamine, 2,2'-dichloro-, sulfate (1:1)	(1,1'-ビフェニル)-4,4'-ジアミン, 2,2'-ジクロロ-, 硫酸塩 (1:1)	70146-07-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
3,3'-Dichlorobenzidine dihydrochloride	3,3'-ジクロロ-4,4'-ジアミノビフェニル二塩酸塩	612-83-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														●	
3,3'-Dimethylbenzidine dihydrochloride	o-トリジン二塩酸塩	612-82-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●										●				●	
4,4'-Diaminodiphenyl-2,2'-disulfonic acid disodium salt	4,4'-ジアミノジフェニル-2,2'-ジスルホン酸ナトリウム塩	27336-24-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
Acid Black 7	アットブラック 7	8004-59-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Acid red 85	C.I.アットレッド 85.C.I.22245	3567-65-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct black 38	C.I.ダイレクトブラック38.C.I.30235	1937-37-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●	●	●	●										●			●		
C.I. Direct black 4, disodium salt	C.I.ダイレクトブラック4.C.I.30245	2429-83-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct blue 6	C.I.ダイレクトブルー6.C.I.22610	2602-46-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●										●				●	
C.I. Direct blue 2, trisodium salt	C.I.ダイレクトブルー2.C.I.22590	2429-73-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct brown 1	C.I.ダイレクトブラウン1.C.I.30045	3811-71-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct brown 2, disodium salt	C.I.ダイレクトブラウン2.C.I.22311	2429-82-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct brown 154	C.I.ダイレクトブラウン154.C.I.30120	6360-54-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct brown 31, tetrasodium salt	C.I.ダイレクトブラウン31.C.I.35660	2429-81-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct brown 59, disodium salt	C.I.ダイレクトブラウン59.C.I.22345	3476-90-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct brown 6, disodium salt	C.I.ダイレクトブラウン6.C.I.30140	2893-80-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct brown 95	C.I.ダイレクトブラウン95.C.I.30145	16071-86-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●										●			●		
C.I. Direct green 1, disodium salt	C.I.ダイレクトグリーン1.C.I.30280	3626-28-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct green 6, disodium salt	C.I.ダイレクトグリーン6.C.I.30295	4335-09-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct green 8, trisodium salt	C.I.ダイレクトグリーン8.C.I.30315	5422-17-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct red 1, disodium salt	C.I.ダイレクトレッド1.C.I.22310	2429-84-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●															
C.I. Direct red 28	C.I.ダイレクトレッド28.C.I.22120	573-58-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●	●	●	●										●					

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
C.I. Direct red 37	C.I.染料赤37 C.I.22240	3530-19-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														
C.I. Direct violet 22, trisodium salt	C.I.染料紫22 C.I.22480	6426-67-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														
Direct Orange 1	染料オレンジ 1	13164-93-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														
Benzoic acid, 5-[[4'-[[[1-amino-4-sulfo-2-naphthalenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt	C.I.染料紫8 C.I.22130	2429-79-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														
Trypan blue (C.I. Direct Blue 14)	C.I.染料青14 C.I.23850	72-57-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●												●		
Benzoic acid, 3,3'-[(3,7-disulfo-1,5-naphthalenediyl)bis[azo(6-hydroxy-3,1-phenylene)azo(6(or 7)-sulfo-4,1-naphthalenediyl)azo(1,1'-biphenyl)-4,4'-diylazo]]bis[6-hydroxy-, hexasodium salt	C.I.染料紫74 C.I.36300	8014-91-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														
3,3'-Dichlorobenzidine	3,3'-ジクロロベンジジン	91-94-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●	●		●										●		●		
3,3'-Dimethoxybenzidine	3,3'-ジメトキシベンジジン	119-90-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●	●		●										●		●		
3,3'-Dimethylbenzidine	3,3'-ジメチルベンジジン(別名オトリジン)	119-93-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●	●		●										●		●		
Salts from 3,3'-Dimethoxybenzidine	3,3'-ジメトキシベンジジン塩	-	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														
Dipotassium O,O'-(4,4'-diaminobiphenyl-3,3'-ylene)diglycollate	O,O'-(4,4'-ジアミノジフェニルエーテル)ニグリン二重塩	74220-10-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●														
Benzidine, hydrochloride		14414-68-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
1,1'-Biphenyl-4,4'-diamine, monoperochlorate		29806-76-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
(1,1'-Biphenyl)-4,4'-diamine, dihydriodide		75534-79-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
(1,1'-Biphenyl)-4,4'-diamine, monohydrochloride		75752-15-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
benzidine, mono(2-hydroxy-3,5-dinitrobenzoate)		78577-03-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
benzidine, mono(3,5-dinitrobenzoate)		78577-08-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
benzidine, bis(2-hydroxy-3,5-dinitrobenzoate)		92415-34-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
benzidine, bis(3,5-dinitrobenzoate)		92415-52-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
(1,1'-Biphenyl)-ar,ar',4,4'-tetramine		66836-18-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
benzidine, phosphate (1:1)		66907-22-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
[1,1'-Biphenyl]-4,4'-diamine, perchlorate		38668-12-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
Benzidine diperchlorate		41195-21-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
(1,1'-Biphenyl)-4,4'-diamine, dihydrofluoride		41766-73-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
(1,1'-Biphenyl)-4,4'-diamine, monoacetate		52754-64-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 100				●														
Benzododecinium chloride;	ベンゾドデシニウム塩化物	139-07-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,4-bis(1,1-dimethylethyl)phenyl ester		4221-80-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Benzophenone	ベンゾフェノン	119-61-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●		
Benzothiazole-2-thiol; 2-Mercaptobenzothiazole;	2-メルカプトベンゾチアゾール	149-30-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
2-Benzothiazolesulphenamide, N, N-dicyclohexyl-	N,N-ジシクロヘキサール-1-イル(1,3-ヘキシルチオラジ)-ル-2-イルスルフェナミド	4979-32-2	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●									●							
2(3H)-Benzothiazolethione,sodium salt (1:1)		2492-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	2-(2H-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ペンチルフェノール(UV-328)	25973-55-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●		●												
2-(2H-benzotriazol-2-yl)-p-cresol (UV-P)		2440-22-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone		119313-12-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●											●			
Beryllium and its compounds, all members	ベリリウムおよびその化合物、全て					●																
Beryl ore	ベリリウム鉱石	1302-52-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllate(2-), tetrafluoro-, diammonium	テトラフルオロベリリウム酸アンモニウム	14874-86-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●			●													●
Beryllium	ベリリウム	7440-41-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●			●
Beryllium aluminum alloy	ベリリウム-アルミニウム合金	12770-50-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium boride (Be2B)	ベリリウム-ボロイド (Be2B)	12536-51-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium boride (Be4B)	ベリリウム-ボロイド (Be4B)	12536-52-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium boride (BeB2)	ベリリウム-ボロイド (BeB2)	12228-40-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium boride (BeB6)	ベリリウム-ボロイド (BeB6)	12429-94-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium bromide (BeBr2)	ベリリウム-ブロミド (BeBr2)	7787-46-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium carbide (Be2C)	一炭化二ベリリウム	506-66-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium carbonate	塩基性炭酸ベリリウム	13106-47-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium carbonate	塩基性炭酸ベリリウム	66104-24-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium chloride	塩化ベリリウム	7787-47-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium di(acetate)	二酢酸ベリリウム	543-81-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium fluoride	フッ化ベリリウム	12323-05-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium fluoride	フッ化ベリリウム	7787-49-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium hydroxide	水酸化ベリリウム	13327-32-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium iodide (BeI2)	ヨウ化ベリリウム(BeI2)	7787-53-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium nitride (Be3N2)	窒化三ベリリウム	1304-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium oxide	酸化ベリリウム	1304-56-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●												●			●
Beryllium phosphate	リン酸ベリリウム(BeHPO4)	13598-15-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium phosphide	リン化ベリリウム	58127-61-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium phosphide (BeP2)	リン化ベリリウム (BeP2)	57620-29-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium selenide (BeSe)	セレン化ベリリウム (BeSe)	12232-25-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium sulfate	硫酸ベリリウム(1:1)	13510-49-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Beryllium sulfate tetrahydrate	硫酸ベリリウム四水塩	7787-56-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Beryllium sulfide (BeS)	硫化ベリリウム (BeS)	13598-22-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●		
Beryllium telluride (BeTe)	テルル化ベリリウム (BeTe)	12232-37-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Beryllium zinc silicate	ケイ酸ベリリウム亜鉛	25638-88-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Beryllium zinc silicate	ケイ酸ベリリウム亜鉛	39413-47-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Bis(pentane-2,4-dionato-O,O')beryllium	ビス(2,4-ペンタジオネオキシ)ベリリウム	10210-64-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Diethylberyllium	ジエチルベリリウム	542-63-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Disodium tetrafluoroberyllate	四フッ化ベリリウム酸ナトリウム	13871-27-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Hexakis[μ-(acetato-O,O')]-μ <sub>4</sub> -oxotetraberyllium	ヘキサキス[μ-(酢酸-O,O')]-μ <sub>4</sub> -オキソテトラベリリウム	19049-40-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Phosphoric acid, beryllium salt	リン酸ベリリウム(混合)	35089-00-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Phosphoric acid, beryllium salt (2:3)	リン酸ベリリウム(II), (2:3)	13598-26-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Silicic acid (H4SiO4), beryllium salt (1:2)	ケイ酸ベリリウム	15191-85-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Silicic acid, beryllium salt	ケイ酸ベリリウム塩	58500-38-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Biocidal coatings / biocidal additives, selected	殺生物コーティング剤/殺生物添加剤、抜粋					●																	
(+/-)-1-(β-allyloxy-2,4-dichlorophenylethyl)imidazole; Technical grade imazalil	イマザリル	73790-28-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
.alpha.,.alpha.',.alpha.'-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol	1,1,1'-(1,3,5-トリアジン-1,3,5-トリエール)トリス(α'-OH)-2-オール	25254-50-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	1,2-ベンゾイソチアゾリン-3-オン	2634-33-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
1,3-bis(hydroxymethyl)urea	ジメチル尿素	140-95-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
1,3-didecyl-2-methyl-1H-imidazolium chloride	1,3-ジデシル-2-メチル-1H-イミダゾリウム塩	70862-65-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
1-[1,3-bis(hydroxymethyl)-2,5-dioximidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea; Diazolidinylurea	ジアゾリジン尿素	78491-02-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
1H-Pyrazole-4-carboxamide, N-[2-(1,3-dimethylbutyl)phenyl]-5-fluoro-1,3-dimethyl-		494793-67-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	2,2',2''-(ヘキサヒドロ-1,3,5-トリアジン-1,3,5-トリエール)トリエール	4719-04-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2,2-Dibromo-2-cyanoacetamide (DBNPA)		10222-01-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2,2'-dithiobis[N-methylbenzamide]	ビス(2-N-メチルベンザミド)ジメチル	2527-58-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2,4-dichlorobenzyl alcohol	2,4-ジクロロベンジルアルコール	1777-82-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2-bromo-1-(4-hydroxyphenyl)ethan-1-one	2-ブロモ-1-(4-ヒドロキシフェニル)エタン-1-オン	2491-38-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2-Bromo-2-(bromomethyl)pentanedinitrile	2-ブロモ-2-(2-ブロモメチル)ペンタニトリル	35691-65-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2-Chloroacetamide	2-クロロアセチルアミン	79-07-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2-methyl-4-thiazoline-3-ketone; 2-methyl-2H-isothiazol-3-one; MIT; Methylisothiazolinone	2-メチル-4-チアゾリン-3-オン	2682-20-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2-n-butyl-benzo[d]isothiazol-3-one	2-ブチル-2,2-ベンゾ[d]イソチアゾール-3(2H)-オン	4299-07-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2-Phenoxyethanol	2-フェノキシエタノール	122-99-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
2-Phenylphenol; Biphenyl-2-ol; 2-Hydroxybiphenyl	2-フェニルフェノール	90-43-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone	5-クロロ-2-メチル-イソチアゾロン-3(2H)-オン混合物	55965-84-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
3-Iodo-2-propynyl butylcarbamate; 3-Iodo-2-propynylbutylcarbamate (IPBC)		55406-53-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
4,5-Dichloro-2-octyl-2H-isothiazol-3-one; 4,5-Dichloro-2-octylisothiazol-3(2H)-one (DCOIT)		64359-81-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
4,5-dichloro-3H-1,2-dithiol-3-one	4,5-ジクロロ-3H-1,2-ジチオール-3-オン	1192-52-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
5-Chloro-2-(4-chlorophenoxy)-phenol (DCPP)	5-クロロ-2-(4-クロロフェノキシ)フェノール	3380-30-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
5-chloro-2-methyl-4-thiazoline-3-ketone	5-クロロ-2-メチル-4-チアゾリン-3-オン	26172-55-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Allyl isothiocyanate	アリルイソチオシアネート	57-06-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Alpha-cypermethrin	アルファシパーメスリン	67375-30-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Aluminium phosphide; Aluminium phosphide releasing phosphine (under BPR)	燐化アルミニウム	20859-73-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Aluminium sodium silicate-silver complex; Silver zeolite	銀担持ゼオライト	130328-18-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Aluminium sodium silicate-silver copper complex; Silver Copper Zeolite	銅担持ゼオライト	130328-19-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	直鎖C10~16炭素トリメチレンジアミンのクロロ酢酸反応物	139734-65-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Ammonium bromide	臭化アンモニウム	12124-97-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Benzalkonium chloride; Quaternary ammonium compounds, alkylbenzyltrimethyl, chlorides	塩化ベンザルコニウム	8001-54-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Benzododecinium chloride	ヘンゾドデシニウムクロリド	139-07-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Benzo[thiazole-2-thiol; 2-Mercaptobenzo[thiazole	2-メルカプトベンゾチアゾール	149-30-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●	
Benzoxonium chloride	塩化ベンゾキシニウム	19379-90-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Benzyltrimethyl(octadecyl)ammonium chloride	ヘンジルトリメチルオクタデシルアンモニウムクロリド	122-19-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Benzyltrimethyloleylammonium chloride	ヘンジルトリメチルオレイルアンモニウムクロリド	37139-99-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Benzyltrimethylammonium bromide	ヘンジルトリメチルアンモニウム臭素	7281-04-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
(benzyloxy)methanol	ヘンジルメチルエーテル	14548-60-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Bifenthrin	ビフェントリン	82657-04-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Bis(2-sulfidopyridin-1-olato)copper; bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper	ビス(2-スルフィドピリジン-1-olato)銅	14915-37-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Bis(tributyltin) oxide; 1,1,1,3,3,3-Hexabutylstannoxane; Tributyltin oxide (TBTO)	ビストリブチルスズ酸化物	56-35-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●	●				●											
Bis(trichloromethyl) sulphone	ビス(トリクロロメチル)スルホン	3064-70-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Boric acid	硼酸	11113-50-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●	●											●				
Boric acid crude natural)	硼酸	10043-35-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●	●											●				
Bromochloro-5,5-dimethylimidazolidine-2,4-dione	ブロムクロロ-5,5-ジメチルイミダゾリジン-2,4-ジオン	32718-18-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Bronopol; 2-bromo-2-nitropropane-1,3-diol	ブロンポール	52-51-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
C8-18alkylbis(2-hydroxyethyl)ammonium bis(2-ethylhexyl)phosphate	C8-18アルキルビス(2-ヒドロキシエチル)アンモニウムビス(2-エチルヘキシル)リン酸	68132-19-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Calcium dihexa-2,4-dienoate	リルビニル酸カルシウム	7492-55-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Captan; 1,2,3,6-tetrahydro-N-(trichloromethylthio)phthalimide	キャプタン	133-06-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Carbendazim	カベンダジム	10605-21-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●	
Cetalkonium chloride	セタコニウムクロライド	122-18-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Cetylpyridinium chloride	セチルピリジニウム塩化物	123-03-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Chlorfenapyr; 4-Bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile	クロルフェナピル	122453-73-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	クロロクレゾール	59-50-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Chlorothalonil; Tetrachloroisophthalonitrile	クロロチアロニル	1897-45-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●	
Chlorotoluron; 3-(3-chloro-p-tolyl)-1,1-dimethylurea	クロロトルロン	15545-48-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Chromium (VI) trioxide; Trioxochromium	無水クロム(VI)酸	1333-82-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●		●												●	
Cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine	シス-4-[3-(p-tert-ブチルフェニル)-2-メチルプロピル]-2,6-ジメチルモルホリン	67564-91-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Clothianidin; IFMB	クロリアニジン	210880-92-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Copolymer of 2-propenal and propane-1,2-diol	2-プロパルナルドールと1,2-ジプロパノールジメチルアセタール	191546-07-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Copper (Cu)		7440-50-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Copper carbonate hydroxide; Basic Copper carbonate; Copper (II) carbonate--copper (II) hydroxide (1:1)	水酸化銅(II)	12069-69-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Copper dihydroxide; Copper (II) hydroxide; Copper hydroxide	水酸化銅(II)	20427-59-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Copper oxide; Copper (II) oxide	酸化銅(II)	1317-38-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Copper sulphate	硫酸銅(II)	7758-98-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Copper sulphate pentahydrate		7758-99-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Creosote	クレオソート	8001-58-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●														●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cu-HDO; Bis(N-cyclohexyl- diazenium-dioxy)-copper; Bis[1-cyclohexyl-1,2-di(hydroxy-kappa.O)diazeniumato(2-)]-copper	ビス(1-シクロヘキシル-1,2-ジヒドロキソ)ジアゼニウム(2-)-銅	312600-89-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Cybutryne; N'-tert-butyl-N-cyclopropyl-6-(methylthio)-1,3,5-triazine-2,4-diamine	シブトリン	28159-98-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Cyclohexylhydroxydiazene 1-oxide, potassium salt	シクロヘキシルヒドロキシジアゼン(1-オキシ)ポタシウム塩	66603-10-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Cyfluthrin; beta-cyfluthrin; a-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	シフルトリン	68359-37-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Cyproconazole; (2RS,3RS; 2RS,3SR)-2-(4-chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	シプロコナゾール	94361-06-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●													●				
Dazomet; Tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione	ダゾメット	533-74-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
DDACarbonate; LZ 34000; Reaction mass of N,N-didecyl-N,N-dimethyl-ammonium carbonate and N,N-didecyl-N,N-dimethyl-ammonium bicarbonate		894406-76-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Decyldimethyloctylammonium chloride	ドデシルジメチルオクチルアンモニウム塩	32426-11-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Deltamethrin; (S)-a-cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate	デルタメトリン	52918-63-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Diarsenic pentaoxide; Arsenic pentoxide; Arsenic oxide	五酸化二砒素	1303-28-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●	●	●	●									●				
Diboron trioxide	三酸化二硼素	1303-86-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●	●											●				
Dichlofluamid; N-[(Dichlorofluoromethyl)thio]-N',N'-dimethyl-N-phenylsulfamide	ジクロロアミド	1085-98-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Dichlorophene; dichlorophen	ジクロロフェン	97-23-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Dicopper oxide	酸化銅(II)	1317-39-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Didecyldimethylammonium bromide	ジデシルジメチルアンモニウム臭素	2390-68-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Didecyldimethylammonium chloride (DDAC)	ジデシルジメチルアンモニウム塩	7173-51-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Didecylmethylpoly(oxyethyl)ammonium propionate; Poly(oxy-1,2-ethanediyl), .alpha.-[2-(didecylmethylammonio)ethyl]-.omega.-hydroxy-, propanoate (salt)	ジデシルメチルポリ(オキシエチル)アンモニウムプロピオン酸塩	94667-33-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Dimethyldioctylammonium chloride	ジメチルオクチルアンモニウム塩	5538-94-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Dimethylfumarate	フマル酸ジメチル (DMF)	624-49-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.1	●	●	●															
Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium chloride	ジメチルオクタデシル[(3-トリメトキシシリル)プロピル]アモニウム塩化物	27668-52-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Dimethyltetradecyl[3-(trimethoxysilyl)propyl]ammonium chloride	ジメチルテトラデシル[(3-トリメトキシシリル)プロピル]アモニウム塩化物	41591-87-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Diphenoxarsin-10-yloxid	ビス(10H-フェノキサシン-10-イル)E-テル	58-36-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●															
Dipotassium disulphite	二亜硫酸二カリウム	16731-55-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Dipyrrithione	ジピリチオン	3696-28-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Disodium cyanodithiocarbamate	ジアンチオニドチオカルバミン酸二ナトリウム塩	138-93-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Disodium disulphite; Disodium disulfite	二亜硫酸二ナトリウム	7681-57-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Disodium octaborate tetrahydrate; Boron sodium oxide (B8Na2O13), tetrahydrate	八塩基ボロン酸二ナトリウム四水和物	12280-03-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●													●				
Disodium tetraborate, anhydrous	四硼酸ナトリウム(無水物)	1330-43-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●	●											●				
Disodium tetraborate, decahydrate	四硼酸ナトリウム10水和物(硼砂)	1303-96-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●											●				
Disodium tetraborate, pentahydrate	四硼酸ナトリウム5水和物	12179-04-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●											●				
Diuron; 3-(3,4-dichlorophenyl)-1,1-dimethylurea (DCMU)	ジウロン	330-54-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Dodecylguanidine monohydrochloride	ドデシルグアニジン塩酸塩	13590-97-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
DOWICIL* 150 PRESERVATIVE; DOWICIL* 200 PRESERVATIVE	ダウ社製防カビ剤 DOWICIL150/200	51229-78-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Esfenvalerate; (S)-a-cyano-3-phenoxybenzyl-(S)-2-(4-chlorophenyl)-3-methylbutyrate	エスフェンバレート	66230-04-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
(ethylenedioxy)dimethanol/ 1,6-Dihydroxy-2,5-dioxihexane		3586-55-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Etofenprox; Ethofenprox; 3-Phenoxybenzyl-2-(4-ethoxyphenyl)-2-methylpropylether	エトフェンプロクス	80844-07-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Fenitrothion; O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate	フェニトチオン	122-14-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Fenoxycarb; Ethyl [2-(4-phenoxyphenoxy)ethyl] carbamate	N-[2-(4-フェノキシフェニル)エチル]カルバメート	72490-01-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Fipronil; 5-Amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile	フィプロニル	120068-37-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Fludioxonil; 4-(2,2-Difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile		131341-86-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Flufenoxuron; 1-[4-(2-Chloro-alpha,alpha,alpha-trifluoro-para-tolyloxy)-2-fluorophenyl]-3-(2,6-difluorobenzoyl)urea	フルフェノクスロン	101463-69-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Fluometuron	フルメトロン	2164-17-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Folpet; N-(trichloromethylthio)phthalimide	フォルペット	133-07-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●	
Formaldehyde	ホルムアルデヒド	50-00-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●												●			●	
Glutaral; Glutaraldehyde; Pentane-1,5-dial; Pentanedial	グルタルアルデヒド	111-30-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●															
Guazatine triacetate	グアザチントリアセテート	115044-19-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Hexa-2,4-dienoic acid; Sorbic acid	2,4-ヘキサジエン酸 [ソルビク酸]	110-44-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Hexaboron dizinc undecaoxide	六硼亜鉛	12767-90-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Hexafluorosilicic acid		16961-83-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Homopolymer of 2-tert-butylaminoethyl methacrylate (EINECS 223-228-4)	2-tert-ブチルアミノエチルメタクリレートホモポリマー	26716-20-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Hydroxyl-2-pyridone	1-ヒドロキシ-2-ピリドン	822-89-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Imazalil; 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole	イマザリル	35554-44-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●	
Iodine (I)	ヨウ素	7553-56-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Isoproturon; 3-(4-Isopropylphenyl)-1,1-dimethylurea	イソプロトロン	34123-59-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
L-(+)-lactic acid	L-(+)-乳酸	79-33-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Lignin	リグニン	9005-53-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Magnesium phosphide; Trimagnesium diphosphide	リン化マグネシウム	12057-74-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Margosa ext.	イトベシダ(常緑樹)抽出物	84696-25-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Metam potassium; Potassium methyldithiocarbamate	メタカリウム	137-41-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Metam-sodium; Metam; Sodium ethyldithiocarbamate	メタナトリウム	137-42-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Methenamine 3-chloroallylochloride	3-(3'-クロロアリル)メチレンジアミン	4080-31-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Miristalkonium chloride	ミリスチルコニウム塩化物	139-08-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	N(1)-(3-アミノプロピル)-N(1)-ドデシルプロパン-1,3-ジアミン	2372-82-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
N,N,N',N'-Tetramethylethylenediaminebis(2-chloroethyl)ether copolymer	テトラメチルエチレンジアミンビス(2-クロロエチル)エーテル重合体	31075-24-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
N,N'-methylenebis(morpholine) (MBM)	メチレンビスモルホリン	5625-90-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●											●						
Nabam; Disodium ethylenebis(N,N'-dithiocarbamate)	ナバム	142-59-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Naphthenic acids, copper salts	ナフテン酸/銅塩	1338-02-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
N-Didecyl-N-dipolyethoxyammonium borate; Didecylpolyoxethylammonium borate	N-ドデシル-N-ビス(2-ジエトキシエチル)ジアミンボロ酸	214710-34-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Octhilinone; 2-octyl-2H-isothiazol-3-one	オクチリンオン	26530-20-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Oligo(2-(2-ethoxy)ethoxyethylguanidinium chloride)	オリゴ(2-(2-エトキシエチル)イソチアゾール-3-オン)塩化物	374572-91-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Oxine-copper	オキシン銅	10380-28-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
P-[(diiodomethyl)sulphonyl]toluene	ビス(2-ヨードメチル)スルホニルトルエン	20018-09-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Permethrin; m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	ペルメスリン	52645-53-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Poly(hexamethylendiamine guanidinium chloride)	ヘキサメチレンジアミングアニジン塩化物	57028-96-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

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Poly(hexamethylenecyclohexane-1,4-diamine) Hydrochloride	ポリ(ヘキサメチレンピピジン)塩酸塩	27083-27-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Poly(hexamethyleneguanidine)	ポリ(ヘキサメチレングアニジン)	91403-50-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Poly(hexamethyleneguanidine)hydrochloride	ポリ(ヘキサメチレングアニジン)塩酸塩	32289-58-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Poly[iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediy], hydrochloride		1802181-67-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Polyvinylpyrrolidone iodine	ポリビニルピロリドンヨウ素化合物	25655-41-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Potassium (E,E)-hexa-2,4-dienoate	カリウム(E,E)-ヘキサ-2,4-ジエノエート	24634-61-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Potassium 2-biphenylate	2-ビフェニレートカリウム	13707-65-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Potassium dimethyldithiocarbamate	ジメチルジチオカルバマートカリウム	128-03-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●		
Potassium sulphite	亜硫酸カリウム	10117-38-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Prometryn	プロメトリン	7287-19-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Propiconazole; (1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole		60207-90-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●														●				
Pyridine-2-thiol 1-oxide, sodium salt	2-チオピリジン-1-オキシドナトリウム塩	3811-73-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Pyrithione zinc; (T-4)-Bis[2-(thioxo-kappa5)-pyridin-1(2H)-olato-kappaO]zinc(II)	ジピリドンリチウム	13463-41-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●														●				
Quaternary ammonium compounds (benzylalkyldimethyl (alkyl from C8-C22, saturated and unsaturated, tallow alkyl, coco alkyl, and soya alkyl) chlorides, bromides or hydroxides)/BKC		NA	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Quaternary ammonium compounds, [2-[[2-[(2-carboxyethyl)(2-hydroxyethyl)amino]ethyl]amino]-2-oxoethyl]coco alkyldimethyl, hydroxides, inner salts	[2-[[2-[(2-カルボキシエチル)(2-ヒドロキシエチル)アミノ]エチル]アミノ]-2-オキソエチル]ココアルキルジメチルアンモニウム塩	100085-64-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Quaternary ammonium compounds, benzyl-C10-16-alkyldimethyl, chlorides	ベンジル(C10~16)アルキルジメチルアンモニウム塩	68989-00-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides	ベンジル(C12~14)アルキルジメチルアンモニウム塩	85409-22-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; Alkyl (C12-16) dimethylbenzyl ammonium chloride; C12-16-ADBAC	ベンジル(C12~16)アルキルジメチルアンモニウム塩; アルキル(C12-16)ジメチルベンジルアンモニウム塩; C12-16-ADBAC	68424-85-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	7-アルキル(C=12~18)ジメチルベンジルアモニウム塩	68391-01-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, benzyl-C8-16-alkyldimethyl, chlorides	8-アルキル(C=8~16)ジメチルベンジルアモニウム塩	68424-84-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, bromides	8-アルキル(C=8~18)ジメチルベンジルアモニウム臭素	91080-29-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	塩化8-アルキル(C=8-18)ジメチルベンジルアモニウム化合物	63449-41-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, benzylcoco alkyldimethyl, chlorides	ベンジルココアルキルアモニウム塩	61789-71-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	塩化ビス(水素化牛脂)ジメチルアモニウム化合物	61789-80-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, C12-14-alkyl[[ethylphenyl)methyl]dimethyl, chlorides	7-アルキル(C=12~14)ジメチルエチルフェニルメチルアモニウム塩	85409-23-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, coco alkytrimethyl, chlorides	ココアルキルトリメチルアモニウム塩	61789-18-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, di-C6-12-alkyldimethyl, chlorides	ジアルキル(C=6~12)ジメチルアモニウム塩	68391-06-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	ジアルキル(C=8~10)ジメチルアモニウム塩	68424-95-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, di-C8-18-alkyldimethyl, chlorides	ジアルキル(C=8~18)ジメチルアモニウム塩	73398-64-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	塩化ジココアルキルアモニウム化合物	61789-77-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Quaternary ammonium iodides	第四級アモニウムヨウ化物	308074-50-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Bethoxazin/3-benzothiazin-2-yl-5,6-dihydro-1,4,2-oxathiazine 4-oxide	3-(1-ベンゾチアジン-2-イル)-5,6-ジヒドロ-1,4,2-オキサチアジン-4-オキسد	163269-30-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Reaction mass of titanium dioxide and silver chloride. Substance must be reported regarding EC number 944-224-5		EC 944-224-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver (Ag)	銀	7440-22-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver adsorbed on silicon dioxide (as a nanomaterial in the form of a stable aggregate with primary particles in the nanoscale)		1167997-68-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver chloride	塩化銀	7783-90-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Silver nitrate	硝酸銀(1)	7761-88-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver phosphate glass	硝酸銀ガラス	308069-39-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver sodium hydrogen zirconium phosphate	硝酸銀-ナトリウムジシロコウム	265647-11-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver sodium zirconium hydrogenphosphate	銀-ナトリウムリン酸水素ジシロコウム	155925-27-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver zinc zeolite; Aluminium sodium silicate-silver zinc complex	銀-亜鉛担持ゼオライト	130328-20-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Silver-zinc-aluminium-boronphosphate glass; Glass oxide, silver- and zinc-containing	銀-亜鉛-アルミニウム担持リン酸ガラス	398477-47-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Sodium 2,4,6-trichlorophenolate	2,4,6-トリクロロフェノールナトリウム塩	3784-03-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Sodium 2-biphenylate; 2-phenylphenol, sodium salt	2-フェニルフェノールナトリウム塩	132-27-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●	
Sodium bromide	臭化ナトリウム	7647-15-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Sodium dichromate anhydrous	二クロム酸ナトリウム	10588-01-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●		●									●				
Sodium dichromate dihydrate	二クロム酸ナトリウム水和物	7789-12-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●		●		●													
Sodium dimethyldithiocarbamate	ナトリウムジメチルジチオカルバマート	128-04-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																●	
Sodium hydrogen 2,2-methylenebis[4-chlorophenolate]	2,2'-メチレンビス[4-クロロフェノール]水素ナトリウム	10187-52-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Sodium hydrogensulphite; Sodium bisulphite	亜硫酸水素ナトリウム	7631-90-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Sodium hydroxymethylamino acetate	ヒドロキシルメチルアミノ酢酸ナトリウム	70161-44-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●													●				
Sodium p-chloro-m-cresolate	ナトリウム4-クロロ-3-メチルフェネート	15733-22-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Sodium pentachlorophenolate; Pentachlorophenol, sodium salt	ペンタクロロフェノールナトリウム	131-52-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●							●						●				
Sodium sulphite	亜硫酸ナトリウム	7757-83-7	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Symclosene; 1,3,5-Trichloro-1,3,5-triazinane-2,4,6-trione	シムクロセン	87-90-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
TCMTB; (benzothiazol-2-ylthio)methyl thiocyanate	2-[(チオソシアトキシル)スルホニル]-1,3-アゾチオチアミド	21564-17-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Tebuconazole; 1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol		107534-96-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Terbutryn	テブトルン	886-50-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	N,N',N'',N'''-テトラメチルヒドロキシメチルイミダゾ[4,5-d]イミダゾール-2,5(1H,3H)-ジオン	5395-50-6	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Tetrakis(hydroxymethyl)phosphonium sulphate(2:1)	テトラキス(ヒドロキシメチル)ホスホニウムサルファート	55566-30-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Thiabendazole; Thiabendazol; 2-(Thiazole-4-yl)benzimidazole		148-79-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Thiacloprid	チアクトプリド	111988-49-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●													●				
Thiamethoxam	チアメトキサム	153719-23-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Thiram; Tetramethylthiuram disulphide	テトラメチルチウラムジスルファイト (別名チアムス又はチアム)	137-26-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Tolnaftate	トルナフトート	2398-96-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Tolyfluanid; dichloro-N-[(dimethylamino)sulphonyl]fluoro-N-(p-tolyl)methanesulphenamide	トリーフルアニド	731-27-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Tosylchloramide sodium	トシルクロアミドナトリウム	127-65-1	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Triadimefon; 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1,2,4-triazol-1-yl)butanone	トリアジメフォン	43121-43-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●															●		
Tributyltetradecylphosphonium chloride	トリブチルテトラデシルホスホニウムクロリド	81741-28-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Tributyltin naphthenate; Stannane, tributyl-, mono(naphthenoxyloxy) derivs.	トリブチルスズナフテンエート	85409-17-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●	●						●										
Triclosan; 2,4,4-Trichloro-2-hydroxy diphenyl ether; 5-Chloro-2-(2,4-dichlorophenoxy)phenol	トリクロサン[2,4,4'-トリクロロ-2'-ヒドロキシビス(4-クロロフェノキシ)フェノール]	3380-34-5	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Troclosene sodium; Sodium dichloroisocyanurate dihydrate	トロクロセンナトリウム	2893-78-9	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Troclosene sodium; Sodium dichloroisocyanurate dihydrate	トロクロセンナトリウム	51580-86-0	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Zeta-cypermethrin	ゼータサイペルメスリン	52315-07-8	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Zinc oxide; C.I. 77947	酸化亜鉛	1314-13-2	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Zinc sulphide	硫化亜鉛	1314-98-3	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Ziram	ジラム	137-30-4	Reduced/Observation	To be reduced: application as a biocidal agent To be controlled: all applications and products except those used as a biocidal agent	Intentional addition	●																	
Bis(2-(2-methoxyethoxy)ethyl)ether		143-24-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●											●				
Bis(chloromethyl) ether (BCME)	ビス(クロロメチル)エーテル(BCME)	542-88-1	Prohibited	All applications and products	Intentional addition	●										●			●	●	●		
Boric acid/Orthoboric acid	硼酸	10043-35-3	Reduced	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●	●											●				
Boric acid/Orthoboric acid	硼酸	11113-50-1	Reduced	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●	●											●				
Butadiene, 1,3 -	ブタジエン (1,3-ブタジエン)	106-99-0	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●													●		●		
Cadmium and its compounds, all members	カドミウムおよびその化合物、全て					●																	
Antimony, compound with cadmium (2:3)	アンチモン、カドミウム (2:3)	12014-29-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●		●	●											●	
Boric acid, cadmium salt	硼酸カドミウム塩	51222-60-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●		●	●											●	
C.I. Pigment Orange 20 (Cadmium sulfoselenide orange)	カドミウムオレンジ 20	12656-57-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●		●	●											●	
C.I. Pigment Red 108 Cadmium sulfoselenide red	カドミウム赤	58339-34-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●		●	●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cadmiate(2-), tetrakis(cyano-C)-, dipotassium, (T-4)-	テトラシアノカドミウム酸カリウム	14402-75-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium	カドミウム	7440-43-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●	●	●	●		●	●							●		●	
Cadmium acetate	酢酸カドミウム	543-90-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium acrylate	アクリル酸カドミウム	15743-19-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium arsenide (Cd3As2)	ヒ化カドミウム	12006-15-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●												●	
Cadmium bis(2-ethylhexanoate)		2420-98-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium bromide	臭化カドミウム	7789-42-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium bromide, tetrahydrate	臭化カドミウム四水和物	13464-92-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium carbonate	炭酸カドミウム(1:1)	513-78-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●	●		●	●							●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cadmium chloride	塩化カドミウム無水物	10108-64-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●	●	●	●										●	●	
Cadmium chloride phosphate (Cd5Cl(PO4)3)	トリリン酸塩化カドミウム	12185-64-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium chloride phosphate (Cd5Cl(PO4)3), manganese-doped	トリリン酸塩化カドミウムマンガントラップ塗料	100402-53-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium chloride, hydrate (2:5)	塩化カドミウム・5/2水和物	7790-78-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium chromate	カドミウムクロム酸	14312-00-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium cyanide (Cd(CN)2)	シアニドカドミウム	542-83-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium diicosanoate	ジエイコサ酸カドミウム	14923-81-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium dinitrite	二亜硝酸カドミウム	7790-83-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium diricinoleate	リシノール酸カドミウム	13832-25-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cadmium fluoborate	四硼化鉛酸ホウ酸	14486-19-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium fluoride (CdF2)	フッ化鉛	7790-79-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●	●		●	●							●		●	
Cadmium hexafluorosilicate(2-)	六フッ化鉛	17010-21-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium hydrogen phosphate	リン酸水素鉛	14067-62-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium hydroxide (Cd(OH)2)	水酸化鉛	21041-95-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●	●	●	●		●	●							●		●	
Cadmium iodate	ヨウ化鉛	7790-81-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium iodide	ヨウ化鉛	7790-80-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium Lithophone Yellow	C.I.110937:1(鉛黄)	90604-90-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium Mercury Sulfide	硫化鉛水銀	1345-09-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cadmium mercury telluride ((Cd,Hg)Te)	テルル化カドミウム水銀	29870-72-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium molybdenum oxide (CdMoO4)	モリブデン酸カドミウム	13972-68-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium niobium oxide (Cd2Nb2O7)	ニオブ酸カドミウム	12187-14-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium nitrate (Nitric acid cadmium salt tetrahydrate (Cd· 2NO3·4H2O))	硝酸カドミウム無水物	10022-68-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●					●	●									●	
Cadmium nitrate (Nitric acid cadmium salt (2:1) (Cd· 2NO3))	硝酸カドミウム無水物	10325-94-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●	●		●	●							●		●	
Cadmium oxide	酸化カドミウム	1306-19-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●	●	●	●		●	●							●		●	
Cadmium oxide (CdO), solid solution with calcium oxide and titanium oxide (TiO2), praseodymium-doped	酸化カドミウムと酸化カルシウム・酸化チタン混合物の固溶体中の酸化カドミウム、プラセオジムドープ塗料	101356-99-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium oxide (CdO), solid solution with magnesium oxide, tungsten oxide (WO3) and zinc oxide	酸化マグネシウム、酸化タングステン、酸化亜鉛混合物の固溶体中の酸化カドミウム、亜鉛ドープ塗料	102110-30-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium peroxide (Cd(O2))	過酸化カドミウム (Cd(O2))	12139-22-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cadmium phosphide (Cd3P2)	燐化カドミウム	12014-28-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium propionate	ジプロピルカドミウム酸	16986-83-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium selenide (CdSe)	セレン化カドミウム	1306-24-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物 の固溶体中の亜セレン酸カドミウム、アルミニウムと銅ドーピング塗料	101357-00-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物 の固溶体中の亜セレン酸カドミウム、銅とマンガンドーピング塗料	101357-01-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物 の固溶体中の亜セレン酸カドミウム、ユーロピウムドーピング塗料	101357-02-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物 の固溶体中の亜セレン酸カドミウム、金とマンガンドーピング塗料	101357-03-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物 の固溶体中の亜セレン酸カドミウム、マンガンと銀ドーピング塗料	101357-04-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	
Cadmium selenide sulfide (Cd(Se,S))	硫化セレン化カドミウム	12626-36-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cadmium selenide sulfide (Cd2SeS)	硫化セレンカドミウム	12214-12-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●		
Cadmium selenide sulfide (CdSe0.53S0.47)	硫化セレンカドミウム (CdSe0.53S0.47)	71243-75-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium selenide sulfide, (Cd2SeS)	硫化セレンカドミウム, (Cd2SeS)	12213-70-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium selenide sulphide	硫化セレンカドミウム	11112-63-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium stearate	ステアリン酸カドミウム	2223-93-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium succinate	カドミウムサクシネート	141-00-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium sulfate	硫酸カドミウム無水物	10124-36-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●	●		●	●							●			●	
Cadmium sulfate	硫酸カドミウム無水物	31119-53-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●		●	●		●	●										●	
Cadmium sulfate, hydrate	硫酸カドミウム8/3水和物	7790-84-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
Cadmium sulfide	硫化カドミウム	1306-23-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●	●	●	●	●	●										●	●		
Cadmium sulphite	亜硫酸カドミウム	13477-23-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	
Cadmium tantalum oxide (CdTa2O6)	タングステン六酸化カドミウム (CdTa2O6)	12292-07-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	
Cadmium telluride (CdTe)	テルル化カドミウム	1306-25-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	
Cadmium titanium oxide (CdTiO3)	酸化チタンカドミウム	12014-14-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	
Cadmium tungsten oxide (CdWO4)	タングステン酸カドミウム	7790-85-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	
Cadmium vanadium oxide (CdV2O6)	酸化カドミウムバナジウム (CdV2O6)	16056-72-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	
Cadmium Zinc lithophone Yellow	C.I.ピグメント黄-35:1	90604-89-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	
Cadmium zinc sulfide	硫化亜鉛カドミウム	11129-14-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●												●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cadmium zinc sulfide ((Cd,Zn)S)	硫化カドミウム亜鉛 ((Cd,Zn)S)	12442-27-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium Zink Sulfide Yellow	硫化亜鉛カドミウム	8048-07-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium zirconium oxide (CdZrO3)	ジカドミウム酸カドミウム	12139-23-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
cadmium(+2) cation diformate	二カドミウム酸カドミウム	4464-23-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium-barium laurate	ラウリン酸カドミウムバリウム	15337-60-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmiumbis(diethylidithiocarbamat)	ビス(ジエチルジチオカルバマート)カドミウム	14239-68-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Carbonic acid, cadmium salt	炭酸カドミウム	93820-02-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Diboron tricadmium hexaoxide	六カドミウム酸カドミウム	13701-66-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Dicadmium hexakis(cyano-C)ferrate(4-)	六カドミウム(シアン-C)フェレート(4-)カドミウム	13755-33-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Diphosphoric acid, barium cadmium salt	二リン酸バリウムカドミウム塩	37131-86-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Diphosphoric acid, cadmium salt	二リン酸カドミウム塩	19262-93-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Diphosphoric acid, cadmium salt (1:2)	二リン酸カドミウム塩(1:2)	15600-62-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Dipotassium tetrachlorocadmiate(2-)	テトラクロロカドミウム(2-)二カリウム	20648-91-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Nonanoic acid, branched, cadmium salt	分枝ノナン酸カドミウム塩	93686-40-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Phosphoric acid, ammonium cadmium salt (1:1:1)	リン酸カドミウムアンモニウム(1:1:1)	14520-70-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Phosphoric acid, cadmium salt	リン酸カドミウム(Cd(PO4)x)	13847-17-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Phosphoric acid, cadmium salt (2:3)	リン酸カドミウム(Cd3(PO4)2)	13477-17-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Selenic acid, cadmium salt (1:1)	セレン酸カドミウム	13814-62-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Selenious acid, cadmium salt (1:1)	亜セレン酸カドミウム(1:1)	13814-59-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Silicic acid (H2SiO3), cadmium salt (1:1)	矽酸カドミウム	13477-19-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Silicic acid, zirconium salt, cadmium pigment-encapsulated		102184-95-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Sulfamic acid, cadmium salt (2:1)	スルファミン酸カドミウム塩(2:1)	14017-36-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Telluric acid (H2TeO3), cadmium salt (1:1)	亜テルル酸カドミウム(1:1)	15851-44-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Telluric acid (H2TeO4), cadmium salt (1:1)	テルル酸カドミウム	15852-14-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Tetradecanoic acid, cadmium salt	ミリスチン酸カドミウム	10196-67-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Cadmium dioleate	二酸化カドミウム	10468-30-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●	●									●	
Barium cadmium tetrastearate	テトラステアリン酸カドミウムバリウム	1191-79-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●	●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Cadmium di(octanoate)	オクタノ酸カドミウム	2191-10-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium p-toluate	p-トルエン酸カドミウム	2420-97-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Bis(dibutylidithiocarbamato-S,S')cadmium	ビス(ジブチルジチオカルバミン酸)カドミウム	14566-86-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Bis(pentane-2,4-dionato-O,O')cadmium	ビス(ペンタン-2,4-ジオン酸)カドミウム	14689-45-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Tris(ethylenediamine)cadmium dihydroxide	トリス(エチレンジアミン)カドミウムジヒドロキサイド	14874-24-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium bis(piperidine-1-carbodithioate)	ビス(ピペリジン-1-カルボジチオ酸)カドミウム	14949-59-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Bis(dimethyldithiocarbamato-S,S')cadmium	ビス(ジメチルジチオカルバミン酸)カドミウム	14949-60-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Disodium tetrakis(cyano-C)cadmate(2-)	ジナトリウムテトラキス(シアノ)カドミウム(2-)	15682-87-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Dipotassium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cadmate(2-)	ジカリウム[[N,N'-エチレンビス[N-(カルボキシル)グリシナト]](4-)-N,N',O,O',ON,ON']カドミウム(2-)	15708-29-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cadmium dilactate	かどミウムの希薄化	16039-55-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
5-oxo-L-proline, cadmium salt	5-オキソ-L-プロリン、かどミウム塩	16105-06-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Bis(ethylenediamine)cadmium(2+) bis[dicyanoaurate(1-)]	ビス(エチレンジアミン)かどミウム(2+)ビス[ジシアナウレート(1-)]	18974-20-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium diphenolate	ジフェノール酸かどミウム	18991-05-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium bis(dipentylthiocarbamate)	かどミウムビス(ペンチルトイオカルバマート)酸塩	19010-65-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium disalicylate	ジサリチル酸かどミウム	19010-79-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium methacrylate	メタクリル酸かどミウム	24345-60-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium epoxyoctadecanoate	エポキシオクタデカノ酸かどミウム	26264-48-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium toluate	トルエン酸かどミウム	27476-27-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Bis(propane-1,2-diyldiamine-N,N')cadmium(2+) bis[bis(cyano-C)aurate(1-)]	ビス(プロパン>-1,2-ジ>イミノ>-N,N')カドミウム(2+)ビス[シアノ(C)アウレート(1-)]	67906-19-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Cadmium dilaolate	ジラリノ酸カドミウム	67939-62-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Tetrapotassium [[[[nitrioltris(methylene)]tris(phosphonato)](6-)-N,O,O',O''']cadmate(6-)	テトラポタシウム[[[[ニトリオリス(メチレン)]トリス(ホスホネート)](6-)-N,O,O',O''']カドミウム(6-)	67989-93-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium m-toluate	m-トリエノ酸カドミウム	68092-45-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Fatty acids, C10-18, cadmium salts	脂肪酸、C10-18、カドミウム塩	68131-58-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Fatty acids, C12-18, cadmium salts	脂肪酸、C12-18、カドミウム塩	68131-59-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Benzyltriphenylphosphonium tetrachlorocadmiate	ベンジルトリフェニルホスホニウムテトラクロロカドミウム	68214-25-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Pentapotassium hydrogen [[[[ethylenebis[nitriolbis(methylene)]tetraakis(phosphonato)](8-)](8-)]cadmate(6-)	水素ペンタポタシウム[[[[エチレンビス[ニトリオリス(メチレン)]]テトラキス(ホスホネート)](8-)]カドミウム(6-)	68309-98-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper and lead-doped	硫化カドミウム(CdS)、硫化亜鉛、銅、鉛ドープの固体	68332-81-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Fatty acids, C14-18, cadmium salts	脂肪酸、C14-18、カドミウム塩	68409-82-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Cadmium, benzoate p-tert-butylbenzoate complexes	カドミウム、安息香酸p-tert-ブチル安息香酸錯体	68478-53-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Pyrochlore, bismuth cadmium ruthenium	ルイオウ、ビスマス、カドミウム、ルチウム	68479-13-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, aluminum and cobalt and copper and silver-doped	硫化カドミウム(CdS)、硫化亜鉛、アルミニウム、コバルト、銅、 銀をトランプした固体ゾル	68784-10-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Barium cadmium calcium chloride fluoride phosphate, antimony and manganese- doped	バリウム、カドミウム、カルシウム、塩化物、フッ化物、リン酸塩、アン チモン、マンガントランプ	68784-55-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Fatty acids, tall-oil, cadmium salts	脂肪酸、トール油、カドミウム塩	68855-80-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Fatty acids, C8-18 and C18-unsatd., cadmium salts	脂肪酸、C8-18、C18-unsatd.、カドミウム塩	68876-84-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium sulfide (CdS), aluminum and copper-doped	硫化カドミウム(CdS)、アルミニウム、銅トランプ	68876-98-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium sulfide (CdS), aluminum and silver-doped	硫化カドミウム(CdS)、アルミニウム、銀トランプ	68876-99-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Cadmium sulfide (CdS), copper chloride-doped	硫化カドミウム(CdS)、塩化銅ドープ	68877-00-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), silver chloride-doped	硫化カドミウム(CdS)、塩化銀ドープ	68877-01-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), copper and lead-doped	硫化カドミウム(CdS)、銅、鉛ドープ	68891-87-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, tallow, hydrogenated, cadmium salts	脂肪酸、獣脂、水添、カドミウム塩	68953-39-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Resin acids and Rosin acids, cadmium salts	樹脂酸、ロジン酸、カドミウム塩	68956-81-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Hydrogen [4-[(5-chloro-4-methyl-2-sulphophenyl)azo]-3-hydroxynaphthalene-2-carboxylato(3-)]cadmate(1-)	水素[4-[(5-クロロ-4-メチル-2-スルホフェニル)アゾ]-3-ヒドロキシナフthalen-2-カルボキシラト(3-)]カドミート(1-)の場合	68966-97-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium, dross	カドミウム、ドross	69011-69-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Wastewater, cadmium sulfate electrolytic, acid	廃水、硫酸カドミウム電解、酸	69012-21-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Flue dust, cadmium-refining	排煙塵、カドミウム精錬	69012-57-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Dimethylcadmium	ジメチルカドミウム	506-82-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium oxalate	シュウ酸カドミウム	814-88-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium dithiocyanate	ジチオシアネートカドミウム	865-38-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium dilaurate	カドミウムジラウレート	2605-44-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium didecanoate	ジデカノ酸カドミウム	2847-16-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium bis[benzoate]	カドミウムビス[安息香酸塩]	3026-22-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium 4-(1,1-dimethylethyl)benzoate	カドミウム 4-(1,1-ジメチルエチル)安息香酸塩	4167-05-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium cinnamate	シナモン酸カドミウム	4390-97-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sebacate	セバ酸カドミウム	4476-04-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cadmium potassium 1-(hydroxyethylidene)bisphosphonate(1:2:1)	カドミウムカリウム1-(ヒドロキシエチリデン)ビスホスホネート(1:2:1)	69190-99-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, C12-18, barium cadmium salts	脂肪酸、C12-18、バリウムカドミウム塩	70084-75-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
(R)-12-hydroxyoleic acid, barium cadmium salt	(R)-12-ヒドロキシオレイン酸、バリウムカドミウム塩	71411-66-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Tetra-μ-chlorodichlorobis[2-[[[2,3-dihydroxypropoxy]hydroxyphosphinyloxy]triethylmethylammoniumato]tricadmium, stereoisomer	テトラ-μ-クロロジクロロビス[2-[[[2,3-ジヒドロキシプロポキシ]ヒドロキシホスフィニル]オキシ]トリエチルメチルアンモニウム]トリカドミウム、立体異性体	71861-27-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, coco, cadmium salts	脂肪酸、ココ、カドミウム塩	72869-63-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Zircon, cadmium yellow	ジルコニウム、カドミウム黄色	72968-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
[[[N,N'-ethylenebis(glycinato)](2-)-N,N',O,O']cadmium	N,N'-イソソレニル[グリシナト](2-)-N,N',O,O']カドミウム	29977-13-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium isooctanoate	イソオクタノ酸カドミウム	30304-32-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium dodecylbenzenesulphonate	ドデシルベンゼンスルホン酸カドミウム	31017-44-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Cadmium (1,1-dimethylethyl)benzoate	カドミウム(1,1-ジメチルエチル)安息香酸塩	31215-94-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Cadmium [R-(R*,R*)]-tartrate	カドミウム[R-(R*,R*)]-酒石酸塩	34100-40-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium didocosanoate	ジドコサノエートカドミウム	34303-23-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium 3,5,5-trimethylhexanoate	3,5,5-トリメチルヘキサノ酸カドミウム	36211-44-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium(2+) (R)-12-hydroxyoctadecanoate	カドミウム(2+) (R)-12-ヒドロキソオクタデカノエート	38517-19-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']cadmate(1-)	カリウム[N,N-ビス(カルボキシル)グリシナト(3-)-N,O,O',O'']カドミウム(1-)	49784-42-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Bis(5-oxo-L-prolinato-N1,O2)cadmium	ビス(5-オキソ-L-プロリナト-N1,O2)カドミウム	85958-86-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Bis(5-oxo-DL-prolinato-N1,O2)cadmium	ビス(5-オキソ-DL-プロリナト-N1,O2)カドミウム	85994-31-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Benzenesulfonic acid, mono-C10-13-alkyl derivs., cadmium salts	ベンゼンスルホン酸、EJ-C10-13-アルキル誘導体、カドミウム塩	90194-35-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Benzoic acid, cadmium salt, basic	安息香酸、カドミウム塩、塩基性	90218-85-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Decanoic acid, branched, cadmium salts	デカン酸、分岐、カドミウム塩	90342-19-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Hexanoic acid, 2-ethyl-, cadmium salt, basic	ヘキサン酸、2-エチル、カドミウム塩、塩基性	90411-62-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Propanoic acid, cadmium salt, basic	プロパン酸、カドミウム塩、塩基性物質	90529-78-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Leach residues, cadmium cake	浸出残留物、カドミウムケーキ	91053-44-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Leach residues, zinc ore-calcine, cadmium-copper ppt.	浸出残渣、亜鉛鉱石、加鉛、カドミウム-銅 ppt.	91053-46-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, castor-oil, hydrogenated, cadmium salts	脂肪酸、ヒマシ油、水添、カドミウム塩	91697-35-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, C8-10-branched, cadmium salts	脂肪酸、C8-10分岐、カドミウム塩	92257-06-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Leach residues, zinc refining flue dust, cadmium-thallium ppt.	浸出残渣、亜鉛精錬排ガス、カドミウム-タリウムppt.	92257-11-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Fatty acids, C9-13-neo-, cadmium salts	脂肪酸、C9-13-ネオ、カドミウム塩	92704-12-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, olive-oil, cadmium salts	脂肪酸、オリーブ、カドミウム塩	92704-15-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, peanut-oil, cadmium salts	脂肪酸、ピーナツ、カドミウム塩	92704-19-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, rape-oil, cadmium salts	脂肪酸、菜種油、カドミウム塩	92704-24-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Fatty acids, C14-18 and C18-unsatd., branched and linear, hydrogenated, cadmium salts	脂肪酸、C14-18 分岐・直鎖、水素添加、カドミウム塩	92797-28-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Bis(2-ethylhexyl mercaptoacetato - O,S)cadmium	ビス(2-エチルヘキシルメルカプトアセト-オ、S)カドミウム	93858-50-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium bis(o-nonylphenolate)	ビス(オノンフェノール)カドミウム	93894-07-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium bis(p-nonylphenolate)	ビス(ピノンフェノール)カドミウム	93894-08-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium bis[p-(1,1,3,3- tetramethylbutyl)phenolate]	ビス[1,1,3,3-テトラメチルブチルフェノール]カドミウム	93894-09-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Cadmium (Z)-hexadec-9-enoate	カドミウム(Z)-ヘキサデカ-9-エノート	93894-10-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium isodecanoate	イソデカノ酸カドミウム	93965-24-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium bis(isoundecanoate)	カドミウムビス(イソウンデカノート)	93965-30-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium dimethylhexanoate	ジメチルヘキサノ酸カドミウム	93983-65-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium tetrapentyl bis(phosphate)	カドミウムテトラペンチルビス(リン酸)	94232-49-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium isooctyl phthalate (1:2:2)	イソオクチルフタル酸カドミウム(1:2:2)	94247-16-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium (1-ethylhexyl) phthalate (1:2:2)	1-エチルヘキシルフタル酸カドミウム(1:2:2)	94275-93-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium octyl phthalate (1:2:2)	オクチルフタル酸カドミウム(1:2:2)	94275-94-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Leach residues, cadmium-contg. flue dust	浸出残留物、カドミウム含有煙道ダスト	94551-70-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	









5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Cadmium trichloride 1 sodium		55425-74-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Cadmium sulfate sodium		28038-18-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Potassium sulfate cadmium		28038-25-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Monoammonium cadmium triiodide		32593-99-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium sulfate caesium hexahydrate		34345-39-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Potassium sulfate cadmium dihydrate		38386-25-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium chloride magnesium dodecahydrate		77289-75-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Barium di-μ-chlorotetrachloridcadmate(2- )		61129-40-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper chloride-doped		68512-49-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper and manganese-doped		68512-50-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, aluminum and copper-doped		68512-51-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper and silver-doped		68583-43-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, nickel and silver-doped		68583-44-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, silver chloride-doped		68583-45-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, aluminum and silver-doped		68584-41-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper and nickel-doped		68584-42-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Dihydrogen bis[hydroxysuccinato(2-)-O1,O2,O4]cadmate(2-)		71436-99-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cadmate(2-)		35803-35-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Hydrogen [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']cadmate		49784-44-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Barium tetrachlorocadmiate(2-)		99587-10-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium chlorate		22750-54-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium mesosulfate (CdH2SO5) (7CI)		13477-20-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfate, tetrahydrate		13477-21-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Sulfuric acid, cadmium salt (1:1), heptahydrate		13477-22-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium perchlorate (6CI,7CI)		13760-37-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
D-Glucopyranose, 4-O-α-D-glucopyranosyl-		16984-36-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Octadecanoic acid, barium cadmium salt		17033-07-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
UNDECANSAEURE-CD-SALZ		17329-48-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Ammonium cadmium chloride (Ammonium cadmium trichloride)		18532-52-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfate octahydrate		22465-18-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium, chloro(1,10-phenanthroline-2- carboxylato)-, polymers		25685-75-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium hydroxide hydrate		29736-89-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Disodium ethylenediaminetetraacetate cadmium		30363-28-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium, (29H,31H-phthalocyaninato(2- )- kappaN29,kappaN30,kappaN31,kappaN32 )-, (SP-4-1)-		21328-74-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sulfate hydrate		15244-35-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium acetate hydrate		89759-80-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Cadmium perchlorate hydrate		79490-00-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium bromate		14518-94-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Zircon, cadmium red		72828-62-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium, diethyl-		592-02-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Benzenediazonium, 4-(phenylamino)-, sulfate (1:1), polymer with formaldehyde, cadmium chloride complexes		68441-39-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium borate oxide (Cd3(BO2)4O), manganese-doped		68784-58-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Barium cadmium zinc sulfide (Ba2(Cd,Zn)S3), manganese-doped		68876-90-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium laurate, palmitate, stearate		68954-18-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium sponge		69011-70-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Silimes and Sludges, cadmium electrolytic		69029-89-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium chloride (CdCl <sub>2</sub> ), tetrahydrate		70206-08-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium, dichlorotetrakis(1H-imidazole- kappaN3)-		72275-93-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium chloride dihydrate		72589-96-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Cadmium zinc sulfide ((Cd,Zn)S), cobalt and copper-doped		72869-26-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Nitric acid, cadmium salt, hydrate		79990-52-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Nitric acid, cadmium salt, dodecahydrate		85688-00-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
Pentanoic acid, 2-propyl-, cadmium salt		87835-30-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	
2-Butenedioic acid (Z)-, mono-octadecyl ester, cadmium salt		71599-06-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
22-Tricosenoic acid, cadmium salt		76835-97-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Tetracosanoic acid, cadmium salt		116854-17-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Tricosanoic acid, cadmium salt		116920-59-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Selenic acid, cadmium salt (1:1), dihydrate		10060-09-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Tetraiodide diammonium cadmium		105034-60-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100				●		●										●		
Chlorinated hydrocarbons, selected	塩素化炭化水素類、抜粋					●																	
1,1,1-Trichloroethane (Ethane, 1,1,1-trichloro- )	1,1,1-トリクロロエタン	71-55-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1,1,2 Tetrachloroethane	1,1,1,2-テトラクロロエタン	630-20-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	●		●														●	
1,1,2 Trichloroethane	1,1,2-トリクロロエタン	79-00-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	●		●														●	
Dichloromethane	ジクロロメタン	75-09-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	●		●														●	
Trichloroethylene	トリクロロエチレン	79-01-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	●		●	●				●						●			●	
Chlorinated or brominated Dibenzo-p- dioxins or Dibenzofurans, all members	塩素系または臭素系ジベンゾ-p-ダイオキシン類または ジベンゾフラン類、全て					●																	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-ヘプタクロロジベンゾフラン	67562-39-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1,2,3,4,6,7,8-ヘプタクロロジベンゾ-p-ダイオキシン	35822-46-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-ヘプタクロロジベンゾフラン	55673-89-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	
1,2,3,4,7,8-Hexachloro dibenzofuran	1,2,3,4,7,8-ヘキサクロロジベンゾフラン	70648-26-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1,2,3,4,7,8-ヘキサクロロジベンゾ-p-ダイオキシン	39227-28-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	
1,2,3,6,7,8-Hexachloro dibenzofuran	1,2,3,6,7,8-ヘキサクロロジベンゾフラン	57117-44-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1,2,3,6,7,8-ヘキサクロロジベンゾ-p-ダイオキシン	57653-85-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	
1,2,3,7,8,9-Hexachloro dibenzofuran	1,2,3,7,8,9-ヘキサクロロジベンゾフラン	72918-21-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1,2,3,7,8,9-ヘキサクロロジベンゾ-p-ジオキシン	19408-74-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
1,2,3,7,8-Pentachloro dibenzofuran	1,2,3,7,8-ペンタクロロジベンゾフラン	57117-41-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1,2,3,7,8-ペンタクロロジベンゾ-p-ジオキシン	40321-76-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
2,3,4,6,7,8-Hexachloro dibenzofurans	2,3,4,6,7,8-ヘキサクロロジベンゾフラン	60851-34-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
2,3,4,7,8-Pentachloro dibenzofurans	2,3,4,7,8-ペンタクロロジベンゾフラン	57117-31-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
2,3,7,8-Tetrachloro dibenzofurans	2,3,7,8-テトラクロロジベンゾフラン	51207-31-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	2,3,7,8-テトラクロロジベンゾ-p-ジオキシン	1746-01-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●															●	
2,7-Dichlorodibenzo-p-dioxin	2,7-ジクロロジベンゾ-p-ジオキシン	33857-26-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
Hexachlorodibenzodioxin	ヘキサクロロジベンゾ-dioxin	34465-46-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
Octachlorodibenzofuran	1,2,3,4,6,7,8,9-オクタクロロジベンゾフラン	39001-02-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
Octachlorodibenzo-p-dioxin	1,2,3,4,6,7,8,9-オクタクロロジベンゾ-p-ジオキシン	3268-87-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	●																
Chlorinated paraffins, short & medium chain length (SCCP, MCCP), all members: Note that the use of specific CAS numbers for these substances differs throughout the world. Example CAS numbers are provided below; however, other CAS numbers may be used that are not specific to chain length. Therefore, please consult your MSDS and supplier to determine product-specific chain length.						●																
Short chain (SCCP), by definition: Chloroparaffins, unbranched, C <sub>x</sub> H <sub>(2x-y+2)</sub> Cl <sub>y</sub> , where x = 10-13 and y = 1-13																						
Alkanes, C10-12, chloro	7カハ, C10-12, 700	108171-26-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●	●					●									●	
Alkanes, C10-13, chloro	7カハ, C10-13, 700	85535-84-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●	●	●				●						●		●		
Alkanes, C12-13, chloro	7カハ, C12-13, 700	71011-12-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●	●					●										
Medium chain (MCCP), by definition: Chloroparaffins, unbranched, C <sub>x</sub> H <sub>(2x-y+2)</sub> Cl <sub>y</sub> , where x = 14-17 and y = 1-17																						
Alkanes, C14-17, chloro	7カハ, C14-17, 700	85535-85-9	Reduced	Production Auxiliaries	Relative to the weight of component parts and materials 10000	●	●	●														
OTHER: may or may not be short or medium chain.																						
Alkanes, C10-21, chloro	7カハ, C10-21, 700	84082-38-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●						●										
Alkanes, chloro; chloroparaffins	塩素化塩化炭化水素類	61788-76-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●	●					●										
Paraffin oils, chloro		85422-92-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●						●										
Paraffin waxes and Hydrocarbon waxes, chloro	70077カハ	51990-12-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●																
Paraffin waxes, chloro	塩素化パラフィンワックス	63449-39-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●						●										

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Chlorinated n-paraffins (C6-18)	塩化パラフィン(炭素数6-18/化合物に限る)	68920-70-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Alkane, C10-14-, Chloro-	7助カ, C10-14, 700	85681-73-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Alkane, C12-14-, Chloro-	7助カ, C12-14, 700	85536-22-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Alkane, C16-27-, Chloro-	7助カ, C16-27, 700	84776-07-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●																	
Alkane, C16-35-, Chloro-	7助カ, C16-35, 700	85049-26-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●																	
Alkanes, C10-26, chloro		97659-46-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Alkanes, C10-32, chloro		84776-06-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Paraffins (petroleum), normal C>10, chloro		97553-43-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, 1,1,1,3,5,7,9,11,11-nonachloro-		18993-26-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, 1,1,1,3,6,7,10,11-octachloro-		601523-20-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, 1,1,1,3,9,11,11,11-octachloro-		601523-25-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, 1,2,10,11,?,?,?,?-octachloro-		221174-07-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, decachloro-		276673-33-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, heptachloro-		219697-10-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, nonachloro-		219697-11-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Undecane, octachloro-		36312-81-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000	●							●										
Other Short Chain Chlorinated Paraffins	その他の短鎖型塩素化パラフィン	-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000		●																
1,1,1,2-tetrachloroundecane		63981-28-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000								●										
Chlorinated microcrystalline hydrocarbon waxes (petroleum)		68938-43-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000								●										
Chloroalkane (C = 10 to 22)		104948-36-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000								●										
Chloroalkane (C = 12 to 16)		866758-65-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 10000								●										
5-Chlorobenzotriazole, 2-(2-Hydroxy-3-tert-butyl-5-methylphenyl)- (UV-326)		3896-11-5	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Chromium(VI)-salts, all members	六価クロム塩、全て					●																	
Ammonium bichromate	重クロム酸アンモニウム	7789-09-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●	●	●	●								●		●	●	
Ammonium chromate	クロム酸アンモニウム	7788-98-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●											●	●
Barium chromate	クロム(VI)酸バリウム	10294-40-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●				●	●										●	●
Cadmium chromate	クロム酸カドミウム	14312-00-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	●
C.I. Pigment Orange 21	ピグメントオレンジ 21	1344-38-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	●
Calcium chromate	クロム酸カルシウム	13765-19-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●				●	●							●			●	●
Chromic acid, calcium salt, (Calcium dichromate)		14307-33-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Cesium chromate	クロム酸セシウム	13454-78-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Chromate(1-, chlorotrioxo-, potassium, (T-4)-	塩化クロム酸カリウム	16037-50-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Chromic acid	クロム酸(溶液)	7738-94-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●	●										●	●
Chromic acid (H2Cr2O7)	重クロム酸	13530-68-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●	●										●	●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Chromic acid (H2Cr2O7), nickel(2+) salt (1:1)	重クロム酸 (H2Cr2O7), ニッケル(2+) 塩 (1:1)	15586-38-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●								●		●	●	
Chromic acid (H2CrO4), lanthanum(3+) salt (3:2)	クロム酸ランタン(III)	16565-94-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●											●	●
Chromic acid (H2CrO4), magnesium salt (1:1)	クロム酸マグネシウム	13423-61-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●											●	●
Chromic acid, ammonium salt	二クロム酸アンモニウム(混合)	14445-91-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●											●	●
Chromic acid, barium potassium salt	クロム酸バリウムカリウム塩	27133-66-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●											●	●
Chromic acid, potassium zinc salt	クロム酸亜鉛カリウム	41189-36-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●											●	●
Chromium (VI)	六価クロムイオン	18540-29-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●											●	●
Chromium (VI) chloride	六価塩化クロム	14986-48-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●											●	●
Chromium lead oxide	クロム酸鉛	11119-70-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●											●	●
Chromium hydroxide oxide silicate	水酸化クロム酸化物	68475-49-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●											●	●
Chromium trioxide (CrO3)	無水クロム(VI)酸	1333-82-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●	●		●								●			●	●
Chromyl chloride	塩化クロム	14977-61-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●								●			●	●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cobalt chromate (Chromic acid (H2CrO4), cobalt(2+) salt (1:1))	コバルトクロム酸(Ⅱ)	13455-25-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●									●	●	
Copper chromate	銅クロム酸(CuCrO4)	13548-42-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Copper dichromate	重クロム酸銅	13675-47-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Dilead chromate dihydroxide	水酸化鉛クロム酸二鉛	12017-86-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●										●	●
Dithallium dichromate	二コバルトクロム酸ジタリウム	13453-35-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Lead chromate	クロム酸鉛	7758-97-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●	●	●	●	●							●			●	●
Lead chromate oxide	塩基性クロム酸鉛	18454-12-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●										●	●
Lead chromate silicate	ケイ酸クロム酸鉛	11113-70-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●										●	●
Lead chromate silicate (Pb3(CrO4)(SiO4))	ケイ酸クロム酸鉛	69011-07-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●										●	●
Lead chromate sulfate (Pb9(CrO4)5(SO4)4)	硫酸鉛クロム酸(Ⅱ) (Pb9(CrO4)5(SO4)4)	51899-02-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●										●	●
Lead sulfochromate yellow(C.I. Pigment Yellow 34)	硫黄クロム酸鉛黄色 (CI Pigment Yellow 34)	1344-37-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●	●	●	●	●							●			●	●
Lithium chromate	クロム酸リチウム	14307-35-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Magnesium dichromate	二クロム酸マグネシウム	14104-85-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●									●	●	
Mercury dichromate	二クロム酸第二水銀	7789-10-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	●
Mercury (I) chromate	一クロム酸水銀	13465-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	●
Mercury (II) chromate	二クロム酸水銀(Ⅱ)	13444-75-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	●
Molybdate orange (Lead chromate pigment)	鉛クロム酸モリブデン酸亜硫酸鉛赤(CI Pigment Red 104)	12656-85-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●	●	●	●	●							●			●	●
Nickel chromate	六価クロム酸ニッケル	14721-18-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●							●			●	●
Nitric acid, barium salt, reaction products with ammonia, chromic acid (H2CrO4) diammonium salt and copper(2+) dinitrate, calcined	アンモニア・六価クロム酸(H2CrO4) ニアモニウム塩、加熱二硝酸により反応生成される硝酸銅(Ⅱ)の塩	99328-50-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Nitric acid, copper(2+) salt, reaction products with ammonia, chromic acid (H2CrO4) diammonium salt and manganese(2+) dinitrate, kilned	炉内/六価クロム酸(H2CrO4) アンモニア塩とマanganese(Ⅱ) 二硝酸のアンモニア反応生成による銅	100402-65-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Potassium chromate	六価クロム酸カリウム	7789-00-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●	●							●			●	●
Potassium dichromate	重クロム酸カリウム	7778-50-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●	●							●			●	●
Silver chromate	六価クロム酸銀	7784-01-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●										●	●
Sodium dichromate dihydrate	二クロム酸ナトリウム水和物	7789-12-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●	●											●



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA			
dichromium tris(chromate)	トリス(クロム(Ⅵ))二クロムクロム酸/クロム(Ⅲ)	24613-89-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	●	●		
Sodium chromate	クロム酸ナトリウム	7775-11-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●											●	●	●	
Sodium dichromate	二クロム酸ナトリウム	10588-01-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●											●	●	●	
Strontium chromate	クロム(Ⅵ)酸ストロンチウム	7789-06-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●		●	●											●	●	●	
Thallium (I) chromate	クロム酸チウム(I)	13473-75-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●											●	●	
Zinc chromate	クロム酸亜鉛	1328-67-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●											●	●	
Zinc chromate	クロム酸亜鉛	13530-65-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●				●	●											●	●	
Zinc chromate hydroxide	亜鉛クロム(Ⅵ)水酸化物	15930-94-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●											●	●	
Zinc dichromate	重クロム酸亜鉛	14018-95-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●											●	●	
Zinc potassium chromate	クロム酸亜鉛カリウム(K <sub>2</sub> Zn <sub>2</sub> (CrO <sub>4</sub> ) <sub>2</sub> (OH))	11103-86-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●		●	●												●	●	
Zinc yellow (Zinc chromate pigment)	亜鉛黄	37300-23-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●											●	●	
dihydroxy-dioxo-chromium	クロム酸(六価)	11115-74-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●											●	●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
potassium; dioxido-dioxo-chromium	加六(六価)亜鉛化合物	12433-50-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●					●	●									●	●	
Pentazinc chromate octahydroxide	加八水酸化五亜鉛	49663-84-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●		●	●	●										●	●
C.I. Disperse Yellow 3		2832-40-8	Observation	All applications and products	Relative to the weight of component parts and materials 10000	●																●	
Cobalt and its compounds, all members	コバルトおよびその化合物、全て					●																	
Sulfuric acid, cobalt(2+) salt (1:1)-	硫酸コバルト(II)	10124-43-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●											●			●	
Sodium [4-[[6-[[4-amino-6-chloro-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulpho-2-naphthyl]azo]-3-hydroxy-7-nitronaphthalene-1-sulphonato(4-)]cobaltate(1-)	[4-[[[6-[[4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル]アミノ]-1-ヒドロキシ-3-スルホ-2-ナフチル]アゾ]-3-ヒドロキシ-7-ニトロナフthalene-1-スルホナト(4-)]コバルト(1-)	100231-59-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
(Ethylenediamine-N)(1-imino-1H-indol-3-aminato-N2)[29H,31H-phthalocyaninato-N29,N30,N31,N32]cobalt	(エチレンジアミン-N)(1-イミノ-1H-インドール-3-アミノ-N2)[29H,31H-フタルシアノinato-N29,N30,N31,N32]コバルト	83898-69-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
[.mu.-[Carbonato(2-)-O:O]]dihydroxycobalt	炭酸水酸化コバルト(1:1)	12069-68-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
[5,10,15,20-Tetraphenyl-21H,23H-porphinato(2-)-N21,N22,N23,N24]cobalt	[5,10,15, 20-テトラフェニル-21H,23H-ポルフィリン-21,22,23,24]コバルト	14172-90-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
1,2,4-Benzenetricarboxylic acid, cobalt(2+) salt (1:1)	1,2,4-ベンゼントリカルボキシ酸, コバルト(2+) (1:1)	67801-57-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
1,4-Benzenedicarboxylic acid, cobalt salt	1,4-ベンゼンジカルボキシ酸, コバルト	34262-88-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
1,4-Benzenedicarboxylic acid, monomethyl ester, cobalt(2+) salt	1,4-ベンゼンジカルボキシ酸, コバルト(II)	51084-32-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
2(3H)-Benzothiazolethione, cobalt(2+) salt	2(3H)-ベンゾチアゾールチオン, コバルト(II)	29904-98-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
2-Propenoic acid, 2-methyl-, cobalt(2+) salt	2-プロパノ酸, コバルト(II)	67952-53-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
2-Propenoic acid, cobalt(2+) salt	プロパノ酸, コバルト	58197-53-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
9,12-Octadecadienoic acid (Z,Z)-, cobalt salt	(9Z,12Z)-9,12-オクタデカジエン酸, コバルト(1:x)	14666-96-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
9-Octadecenoic acid (Z)-, cobalt salt	(Z)-9-オクタデカエン酸, コバルト(1:x)	14666-94-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Acetic acid, bromo-, cobalt(2+) salt	2-ブロモ酢酸, コバルト(II)	54846-43-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Acetic acid, cobalt(2+) salt, tetrahydrate	酢酸コバルト(II)四水和物	6147-53-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Acetic acid, cobalt(3+) salt	酢酸コバルト(Ⅲ)	917-69-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Adipic acid, cobalt salt	ヘキサ二酸コバルト	54437-56-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Aluminum boron cobalt lithium nickel oxide		207803-51-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●		●													
Aluminum cobalt lithium nickel oxide		193214-24-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●		●													
Aluminum cobalt oxide	アルミニウムコバルト酸化物	12672-27-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Aluminum cobalt oxide (Al2CoO4)	四酸化コバルト(Ⅱ)ニアルミニウム	1333-88-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Ammonium bis[4-hydroxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]-N-methylbenzenesulphonamide S,S-dioxidato(2-)]cobaltate(1-)	ビス[4-ヒドロキシ-3-[[5-ヒドロキシナフタ[2,1-d]-1,3-オキサチオール-4-イル)アゾ]-N-メチルベンゼンスルホンアミド-S,S-ジオキサイド(2-)]コバルト酸(1-)アモニウム	83847-05-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Ammonium cobalt orthophosphate	アモニウムコバルト化合物	36835-61-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Antimony, compound with cobalt (1:1)	アンチモンコバルト化合物(1:1)	12052-42-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Arsenic acid (H3AsO4), cobalt(2+) salt (2:3)	ヒ酸コバルト(Ⅱ)	24719-19-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●		●													
Arsenopyrite, cobaltoan		12414-94-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●		●													
Benzoic acid, 4-amino-, cobalt(2+) salt (2:1)	4-アミノ安息香酸コバルト(Ⅱ)塩(2:1)	68123-03-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Benzoic acid, methyl-, cobalt salt	トリメチルコバルト塩	42978-77-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(1,3-diphenylpropane-1,3-dionato-O,O')cobalt	ビス(1,3-ジフェニルプロパン-1,3-ジオネート-O,O')コバルト	14405-50-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(1-phenylbutane-1,3-dionato-O,O')cobalt	ビス(1-フェニルブタン-1,3-ジオネート-O,O')コバルト	14128-95-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(6-methylheptane-2,4-dionato-O,O')cobalt	ビス(6-メチルヘプタン-2,4-ジオネート-O,O')コバルト	79215-59-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(D-gluconato-O1,O2)cobalt	ビス(D-グルコン酸)コバルト	71957-08-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(dibutylidithiocarbamato-S,S')cobalt	ビス(ジブチルジチオカルバマト-S,S')コバルト	14591-57-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(diethyldithiocarbamato-S,S')cobalt	ビス(ジエチルジチオカルバマト-S,S')コバルト	15974-34-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(N,N-dimethylpropane-1,3-diamine-N')[2,3,9,10,16,17,23,24-octahydro-29H,31H-tetrakis[1,4]dithiino[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrinato(2-)-N29,N30,N31,N32]cobalt	ビス(N,N-ジメチルプロパン-1,3-ジアミン-N')[2,3,9,10,16,17,23,24-オクタヒドロ-29H,31H-テトラキス[1,4]ジチオ[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]ポルフィラチン酸(2-)-N29,N30,N31,N32]コバルト	83863-98-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Bis(N,N-dimethylpropane-1,3-diamine-N')[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]cobalt	ビス(N,N-ジメチルプロパン-1,3-ジアミン-N')[29H,31H-フタルシアニinato(2-)-N29,N30,N31,N32]コバルト	83863-97-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Bis[2-[(5-chloro-2-pyridyl)azo]-5-(diethylamino)phenolato]cobalt(1+) chloride	ビス[2-[(5-クロロ-2-ピリジン環)アゾ]-5-(ジエチルアミノ)フェノール酸]コバルト(1+)塩素	81342-98-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Carbonic acid, cobalt salt	炭酸、コバルト塩	7542-09-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cassiterite, cobalt manganese nickel grey	スズ石(コバルトマンガニウムグレー)	99749-23-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●															
Cerium, compound with cobalt (1:5)	セリウム、コバルト化合物(1:5)	12214-13-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cerium, compound with cobalt (2:7)	セリウム、コバルト化合物(2:7)	12515-29-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Chloro[2,2',2''-nitritoltris[ethanolato]-N,O,O',O'']cobalt	クロロ[2,2',2''-ニトロトリス(エタノール)-N,O,O',O'']コバルト	36217-04-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Chloropentakis(methylamino)cobalt dichloride	クロロペンタキス(メチルアミノ)コバルト二塩化物	15392-59-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Chromium cobalt copper iron manganese oxide	クロム、コバルト、銅、鉄/酸化物	102262-21-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Chromium cobalt iron manganese oxide	クロム、コバルト、鉄、マンガノ酸化物	102262-22-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Chromium cobalt manganese oxide	クロム、コバルト、マンガノ酸化物	102262-19-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Chromium cobalt oxide	酸化クロムコバルト	37382-24-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Chromium cobalt oxide (Cr2CoO4)	酸化コバルトクロム	12016-69-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt (II) chloride, hexahydrate	塩化コバルト(II)六水和物	7791-13-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt arsenide (CoAs)	砒化コバルト	27016-73-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●															
Cobalt arsenide (CoAs2)	砒化コバルト (CoAs2)	12044-42-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●															
Cobalt arsenide (CoAs3)	砒化コバルト (CoAs3)	12256-04-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●															
Cobalt bis(2-ethylhexanoate)	2-エチルヘキサノ酸コバルト(C8H16O2 1/2Co)	136-52-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt bis(nonylphenolate)	コバルトビス(ノニルフェノール)	83970-30-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt bis[citrato(3-)]di-μ-mu-oxodioxodimolybdate(2-)	ビス[クエン酸(3-)]ジ-μ-オキソオキソジモリブデン酸(2-)コバルト	93776-58-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt, borate 2-ethylhexanoate complexes		91782-60-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt, borate propionate complexes		91782-61-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt boride (Co2B)	ボロ化コバルト(Co2B)	12045-01-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt boride (Co3B)	ボロ化コバルト(Co3B)	12006-78-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																

5. List of NSK Environmentally Harmful Substances (details)

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Cobalt carbonate	炭酸コバルト	513-79-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●											●			
Cobalt carbonyl	コバルトカルボニル	10210-68-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt chloride (CoCl3)	塩化コバルト	10241-04-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt chromate (Chromic acid (H2CrO4), cobalt(2+) salt (1:1))	クロム酸コバルト(Ⅱ)	13455-25-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●			●	●										●	
Cobalt chromite blue green spinel		68187-50-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt chromium alloy	コバルトクロム合金	11114-92-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt dilactate	乳酸コバルト	16039-54-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt dilaurate	ラウリン酸コバルト(Ⅱ)	14960-16-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt diinoleate	リノール酸コバルト(Ⅱ)	6401-84-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt dinicotinate	ニコチン酸コバルト(Ⅱ)	28029-53-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt dioctanoate	オクタノ酸第一コバルト	1588-79-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt dioleate	オレイン酸コバルト(Ⅱ)	19192-71-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt dipalmitate	パルミチン酸コバルト(Ⅱ)	14582-18-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt disodium ethylenediaminetetraacetate	エチレンジアミン四酢酸コバルト二ナトリウム	15137-09-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt distearate	ステアリン酸コバルト(Ⅱ)	1002-88-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt disulfide	二硫化コバルト	12013-10-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt fluoride (CoF3)	フッ化コバルト(Ⅲ)	10026-18-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt glycinate	グリシン酸コバルト	17829-66-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt hexafluorosilicate(2-)	ヘキサフルオロケイ酸コバルト(2-)	12021-67-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt hydroxide	水酸化コバルト(Ⅱ)	21041-93-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt hydroxide oxide (Co(OH)O)	水酸化コバルト酸化物	12016-80-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt iodide (CoI2)	ヨウ化コバルト(Ⅱ)	15238-00-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt iron oxide (CoFe2O4)	四酸化二鉄(Ⅲ)コバルト(Ⅱ)	12052-28-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cobalt lithium manganese nickel oxide		182442-95-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt lithium manganese nickel oxide		346417-97-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●															
Cobalt magnesium red blue borate		68608-93-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt metasilicate	メタケイ酸コバルト	25139-08-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt molybdenum nickel oxide (CoMo2NiO8)	酸化コバルトモリブデンニッケル(CoMo2NiO8)	68016-03-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●											●				
Cobalt naphthenate	ナフテン酸コバルト	61789-51-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt neodecanoate	ネオデカン酸コバルト(混合)	27253-31-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt nickel oxide (CoNiO2)	酸化コバルトニッケル(CoNiO2)	58591-45-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●												●			
Cobalt nitrate	硝酸コバルト(Ⅱ)六水和物	10026-22-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt octoate	2-エチルオクタ酸コバルト(C8H16O2 xCo)	13586-82-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt oxide	酸化コバルト(Ⅱ)	1307-96-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															●	
Cobalt oxide (Co2O3)	三酸化コバルト	1308-04-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt oxide (Co3O4)	四酸化三コバルト	1308-06-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt phosphide (Co2P)	リン化コバルト(Co2P)	12134-02-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt propionate	プロピオン酸コバルト	1560-69-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt selenide (CoSe)	セレン化コバルト	1307-99-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt silicate	ケイ酸コバルト	26686-74-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt silicide (CoSi2)	ニケイ化コバルト	12017-12-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt succinate	スルホン酸コバルト	3267-76-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt sulfate heptahydrate	硫酸コバルト(Ⅱ)七水和物	10026-24-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															●	
Cobalt sulfide (Co2S3)	硫化コバルト(Ⅲ)	1332-71-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt tellate	脂肪酸テラテール油コバルト(混合)	61789-52-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt telluride (CoTe)	テルル化コバルト	12017-13-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																

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Cobalt tetra(2-ethylhexyl) bis(phosphate)	四(2-エチルヘキシル)ビスリン酸コバルト	24828-46-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt tin oxide (CoSnO3)	酸化コバルトスズ	1345-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt titanium oxide (Co2TiO4)	酸化チタンコバルト(Co2TiO4)	12017-38-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt titanium trioxide	チタン酸コバルト	12017-01-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt titanium tungsten oxide ((Co,Ti,W)O2)	酸化コバルトチタンタングステン	144437-67-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt zirconium oxide (CoZrO3)	酸化コバルトジルコニウム(CoZrO3)	69011-09-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(2+) dibromate	二臭化コバルト(II)	14732-58-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(2+) dinickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	ビス[2-ヒドロキシプロパン-1,2,3-トリカルボキシル]コバルト(II)ニコバルト(II)	94232-44-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●															
Cobalt(2+) ethanolate	コバルト(II)酢酸塩	19330-29-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(2+) selenite	亜セレン酸コバルト	10026-23-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(2+) tert-decanoate	ターシャリーテデカノ酸コバルト(II)	84195-99-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(2+), bis(1,2-ethanediamine-N,N')-, bis[bis(cyano-C)aurate(1-)]	ビス[1,2-エタナジアン-N,N')コバルト(2+),ビス[ビス(シアノ-C)金酸塩(1-)]	68958-90-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(2+), bis(1,2-propanediamine-N,N')-, bis[bis(cyano-C)aurate(1-)]	ビス[1,2-プロパナジアン-N,N')コバルト(II),ビス[ビス(シアノ-C)金酸塩(1-)]	67906-18-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(2+), pentaamminechloro-, dichloride, (OC-6-22)-	二塩化(ヘキサミンクロ)コバルト(II)	13859-51-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(3+), hexaammine-, (OC-6-11)-, phosphate (1:1)	六アミンコバルト(III)	55494-92-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(3+), hexaammine-, (OC-6-11)-, salt with trifluoroacetic acid(1:3)	六アミンコバルト(III)塩、三フッ化酢酸混合物(1:3)	59561-55-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(3+), hexaammine-, (OC-6-11)-, triacetate	六アミンコバルト(III)三酢酸(炭素数6-11)	14023-85-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(3+), hexaammine-, (OC-6-11)-, trinitrate	硝酸六アミンコバルト(III)	10534-86-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(3+), hexaammine-, trichloride, (OC-6-11)-	六アミンコバルト(III)塩化物	10534-89-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(3+), tris(1,2-ethanediamine-N,N')-, trichloride, (OC-6-11)-	トリス[1,2-エタナジアン-N,N')コバルト(3+)三塩化物(炭素数6~11)	13408-73-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(II) acetate	酢酸コバルト(II)	71-48-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●											●				
Cobalt(II) fluoroborate	テトラフルオロボレートコバルト(II)	26490-63-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobalt(II) fluoride	フッ化コバルト(II)	10026-17-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobalt(II) sulfide	硫化コバルト(Ⅱ)	1317-42-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, ((2,2'-(1,2-ethanediybis(nitriomethylidyne))bis(6-fluorophenolato))(2-)-N,N',O,O')	((2,2'-(1,2-エタンジイビルニトリオメチリド))ビス(6-フルオロフェノラト))(2-)-N,N',O,O')コバルト	62207-76-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, [(2-amino-2-oxoethoxy)acetato(2-)]-	[(2-アミノ-2-オキソエトキシ)酢酸(2-)]コバルト	68133-85-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	コバルトフタルシアニン	3317-67-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, [29H,31H-phthalocyanine-C,C-disulfonyl dichloridato(2-)-N29,N30,N31,N32]-	[29H,31H-フタルシアニン-C,C-二スルホニル塩素酸(2-)-N29,N30,N31,N32]コバルト	68189-40-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, [29H,31H-phthalocyanine-C-sulfonyl chloridato(2-)-N29,N30,N31,N32]-	[29H,31H-フタルシアニン-C-スルホニルクロリダト(2-)-N29,N30,N31,N32]コバルト	67875-38-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, [3-hydroxy-4-[[1-(p-mercaptophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-o-benzenesulfonanisididato(2-)]-, S-(hydrogen sulfate), monosodium salt	[3-ヒドロキシ-4-[[1-(p-メルカプトフェニル)-3-メチル-5-オキソ-2-ピラゾリン-4-イル]アゾ]-o-ベンゼンスルホニルアニシジダト(2-)]-, S-(硫酸水素)コバルトナトリウム塩	18285-21-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, [4-hydroxy-3-[[1-(p-mercaptophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-o-benzenesulfonophenetidato(2-)]-, S-(hydrogen sulfate), monosodium salt	[4-ヒドロキシ-3-[[1-(p-メルカプトフェニル)-3-メチル-5-オキソ-2-ピラゾリン-4-イル]アゾ]-o-ベンゼンスルホニルフェネチダト(2-)]-, S-(硫酸水素)コバルトナトリウム塩	19052-32-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, [N-(carboxymethyl)glycinato(2-)-N,O,ON]-	[N-カルボキシルメチルグリシン酸(2-)-NOON]コバルト	13869-30-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis(acetato-O)(1,4-diazabicyclo[2.2.2]octane-N1)-, homopolymer	ビス(アセテート-O)(1,4-ジアザビシクロ[2.2.2]オクタネ-N1)コバルトホモポリマー	68239-56-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis(D-glycero-D-ido-heptonato)-	ビス(D-グリセロ-D-イドヘプトナト)コバルト	68475-45-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis(dicyclohexylphosphinodithioato-S,S')-	ビス(ジシクロヘキシルホスフィンジチオアト-S,S')コバルト	40621-10-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis[(2,3-butanedione dioximato)(1-)-N,N']-, (SP-4-1)-	ビス[[2,3-ブタンジオンジオキソイマト(1-)-N,N']]コバルト	3252-99-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis[.alpha.-(1-oxo-1H-isoindol-3-yl)-1H-benzimidazole-2-acetonitrilato]-, (T-4)-	ビス[.alpha.-(1-オキソ-1H-イソインドール-3-イル)-1H-ベンズイミダゾール-2-アセトニトリラト]-コバルト(II)	60109-88-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis[2-[[2-hydroxy-5-[(methylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-	ビス[2-[[2-ヒドロキシ-5-[(メチルアミノ)スルホニル]フェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト	69178-42-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis[3-(1H-benzimidazol-2-ylamino)-1H-isoindol-1-onato]-, (T-4)-	ビス[3-(1H-ベンズイミダゾール-2-イルアミノ)-1H-イソインドール-1-オンアト]コバルト(II)	63287-28-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, bis[carbonato(2-)]hexahydroxypenta-	ビス(炭酸六水酸化六)コバルト	12602-23-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, C4-10-fatty acid naphthenate complexes	脂肪酸(炭素数4-10)、ナフテン酸混合物中のコバルト	84066-85-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes	分岐型カルボン酸(炭素数5-23)、脂肪酸(炭素数4-10)、ナフテン酸の混合物のコバルト塩	83711-42-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, C5-23-branched carboxylate naphthenate complexes	分岐型カルボン酸(炭素数5-23)、ナフテン酸の混合物のコバルト塩	83711-43-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															



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Cobalt, C5-23-branched carboxylate naphthenate octanoate complexes	分岐型ナフテン酸(炭素数5-23)、脂肪酸、脂肪酸の混合物のCpC	83711-44-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with gadolinium (3:1)	CpCガドリニウム化合物(3:1)	12017-50-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with gadolinium (5:1)	CpCガドリニウム化合物(5:1)	12017-61-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with gadolinium (7:2)	CpCガドリニウム化合物(7:2)	11139-24-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with lanthanum (3:1)	CpCランタン化合物(3:1)	61419-68-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with lanthanum (5:1)	CpCランタン化合物(5:1)	12297-66-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with lanthanum (7:2)	CpCランタン化合物(7:2)	12268-07-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with neodymium (3:1)	CpCネオジム化合物(3:1)	12187-43-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with neodymium (5:1)	CpCネオジム化合物(5:1)	12017-65-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with neodymium (7:2)	CpCネオジム化合物(7:2)	12516-51-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with praseodymium (5:1)	CpCプラセオジム化合物(5:1)	12017-67-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with praseodymium (7:2)	CpCプラセオジム化合物(7:2)	12516-52-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with samarium (17:2)	CpCサマリウム化合物(17:2)	12052-78-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with samarium (2:1)	CpCサマリウム化合物(2:1)	12017-43-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with samarium (3:1)	CpCサマリウム化合物(3:1)	12187-46-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with samarium (5:1)	CpCサマリウム化合物(5:1)	12017-68-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with samarium (7:2)	CpCサマリウム化合物(7:2)	12305-84-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with yttrium (3:1)	CpCイットリウム化合物(3:1)	12052-62-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with yttrium (5:1)	CpCイットリウム化合物(5:1)	12017-71-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, compound with yttrium (7:2)	CpCイットリウム化合物(7:2)	12052-70-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, dibromobis(triphenylphosphine)-, (T-4)-	ジブロムビス(トリフェニルホスフィン) CpC(II)	14126-32-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, dibromobis[tris(3,5-dimethylphenyl)phosphine]-, (T-4)-	ジブロムビス[トリ(3,5-ジメチルフェニル)ホスフィン] CpC(II)	69198-43-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, dibromobis[tris(3-methylphenyl)phosphine]-, (T-4)-	ジブロムビス(トリ(3-メチルフェニル)ホスフィン) CpC(II)	49651-10-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

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Cobalt, dichloro(1,4-diazabicyclo[2.2.2]octane-N1)-, homopolymer	ジクロロ(1,4-ジアザビシクロ[2.2.2]オクタ-N1)コバルトホモポリマー	68239-58-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, elemental	コバルト	7440-48-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●												●		●	
Cobalt, tetrakis(2,3-butanedione dioximato)(1-N,N')bis(pyridine)di-, (Co-Co)	テトラキス(2,3-ブタンジオンジオキソイマト)ビス(ピリジン)(1-N,N')コバルト	25971-15-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, tris(2,4-pentanedionato-O,O')-, (OC-6-11)-	トリス(2,4-ペンタネジオン-O,O')コバルト(III)	21679-46-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt, tris(3-bromo-2,4-pentanedionato-O,O')-, (OC-6-11)-	トリス(3-ブロモ-2,4-ペンタネジオン-O,O')コバルト	15218-44-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt-acetate	コバルト酢酸塩	5931-89-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate (6-), [[1,2-ethanediybis[nitriobis(methylene)]]tetrakis[phosphonato]](6-N,N',O,O',O''',O'''''), pentaammonium hydrogen, (OC-6-21)-	[[[1,2-エタンジイビス(ニトリオビス(メチレン))]テトラキス[ホスファート]](6-N,N',O,O',O''',O''''')五アンモニウム水素	68025-39-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate (6-), [[1,2-ethanediybis[nitriobis(methylene)]]tetrakis[phosphonato]](8-N,N',O,O',O''',O'''''), pentapotassium hydrogen, (OC-6-21)-	[[[1,2-エタンジイビス(ニトリオビス(メチレン))]テトラキス[ホスファート]](8-N,N',O,O',O''',O''''')五カリウム水素	67924-23-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate (6-), [[1,2-ethanediybis[nitriobis(methylene)]]tetrakis[phosphonato]](8-N,N',O,O',O''',O'''''), pentasodium hydrogen, (OC-6-21)-	[[[1,2-エタンジイビス(ニトリオビス(メチレン))]テトラキス[ホスファート]](8-N,N',O,O',O''',O''''')五ナトリウム水素	67969-67-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate (CoO21-), lithium	二酸化コバルトリチウム	12190-79-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [1-[[5-(ethylsulfonyl)-2-hydroxyphenyl]azo]-2-naphthalenolato(2-)]methyl[8-[[5-(ethylsulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-2-naphthalenyl]methylcarbamato(2-)]-, sodium	[1-[[5-(エチルスルホニル)-2-ヒドロキシフェニル]アゾ]-2-ナフthalenolato(2-)]メチル[8-[[5-(エチルスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-2-ナフthalenyl]メチルカルバマート(2-)]ナトリウム	103241-62-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]1-[[2-(2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compound with 1-tridecanamine (1:1)	[2,4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オンアト(2-)]1-[[2-(2-ヒドロキシフェニル)アゾ]-2-ナフthalenolato(2-)]コバルト水素(1:1)	70815-19-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]1-[[2-(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	[2,4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オンアト(2-)]1-[[2-(2-ヒドロキシ-4-ニトロフェニル)アゾ]-2-ナフthalenolato(2-)]コバルト水素(1:1)	55668-56-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]1-[[2-(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium	[2,4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オンアト(2-)]1-[[2-(2-ヒドロキシ-4-ニトロフェニル)アゾ]-2-ナフthalenolato(2-)]コバルト酸(1-)ナトリウム	73507-67-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]1-[[2-(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	[2,4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オンアト(2-)]1-[[2-(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2-ナフthalenolato(2-)]コバルト酸(1-)ナトリウム	52277-73-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]1-[[2-(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium	[2,4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オンアト(2-)]1-[[2-(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2-ナフthalenolato(2-)]コバルト酸(1-)ナトリウム	73507-66-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(1-), [2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]	[2, 4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]	73324-02-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]	[2, 4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]	72845-76-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]	[2, 4-ジヒドロ-4-[[2-ヒドロキシ-5-(メチルスルホニル)フェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]	70236-41-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, hydrogen	フタロシアニン銅(II)硫酸塩	30638-08-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, sodium	29H,31H-フタロシアニン銅(II)硫酸塩	52729-67-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]	[3-[[4, 5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホンアミド(2-)]	72928-77-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]	[3-[[4, 5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホンアミド(2-)]	72928-76-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]	[3-[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホンアミド(2-)]	68413-61-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]	[3-[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホンアミド(2-)]	74499-63-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [3-[[4-(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]	[3-[[4-(5-クロロ-2-ヒドロキシフェニル)アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホンアミド(2-)]	72403-33-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [3-[[4-(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]	[3-[[4-(5-クロロ-2-ヒドロキシフェニル)アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホンアミド(2-)]	72391-10-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [4-hydroxy-3-[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)]	[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフthalenyl]アゾ]ベンゼンスルホンアミド(2-)]	83864-24-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [4-hydroxy-3-[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)]	[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフthalenyl]アゾ]ベンゼンスルホンアミド(2-)]	83817-76-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(1-), [4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]	[4-ヒドロキシ-3-[(2-ヒドロキシ-1-ナフタレンイル)アゾ]ベンゼンスルホンアミド(2-)]	72403-32-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]	[4-ヒドロキシ-3-[(2-ヒドロキシ-1-ナフタレンイル)アゾ]ベンゼンスルホンアミド(2-)]	73297-17-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-(2-hydroxypropyl)-2-naphthalenesulfonamidato(2-)]	[6-アミノ-5-[(2-ヒドロキシ-4-ニトロフェニル)アゾ]-N-(2-ヒドロキシプロピル)-2-ナフタレンスルホンアミド(2-)]	73195-17-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [C-(chlorosulfonyl)-29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, hydrogen	[C-(クロロスルホニル)-29H,31H-フタロシアニン-C-スルホンアミド(3-)-N29,N30,N31,N32]-, 水素	68213-72-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']-, hydrogen, (T-4)-	[N,N-ビス(カルボキシル)グリシナト(3-)-N,O,O',O'']-, 水素	53108-50-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]	[N-[8-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-1-ナフタレンイル]アセチルアミド(2-)]	68239-47-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]	[N-[8-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-1-ナフタレンイル]アセチルアミド(2-)]	68966-96-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]	[N-[8-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-1-ナフタレンイル]アセチルアミド(2-)]	59487-93-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis(2,4-dihydro-4-((2-hydroxy-4-nitrophenyl)azo)-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)), sodium	ビス(2,4-ジヒドロ-4-((2-ヒドロキシ-4-ニトロフェニル)アゾ)-5-メチル-2-フェニル-3H-ピラゾール-3-オンアト(2-))-ナトリウム	67486-73-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[1-((2-hydroxy-4-nitrophenyl)azo)-2-naphthalenolato(2-)]-, sodium	ビス[1-((2-ヒドロキシ-4-ニトロフェニル)アゾ)-2-ナフタレンolato(2-)]-, ナトリウム	64611-71-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[1-((2-hydroxy-5-nitrophenyl)azo)-2-naphthalenolato(2-)]-, hydrogen	ビス[1-((2-ヒドロキシ-5-ニトロフェニル)アゾ)-2-ナフタレンolato(2-)]-, 水素	52277-69-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[1-((2-hydroxy-5-nitrophenyl)azo)-2-naphthalenolato(2-)]-, sodium	ビス[1-((2-ヒドロキシ-5-ニトロフェニル)アゾ)-2-ナフタレンolato(2-)]-, ナトリウム	73297-09-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[1-((2-hydroxyphenyl)azo)-2-naphthalenolato(2-)]-, sodium	ビス[1-((2-ヒドロキシフェニル)アゾ)-2-ナフタレンolato(2-)]-, ナトリウム	75752-30-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[1-((5-chloro-2-hydroxyphenyl)azo)-2-naphthalenolato(2-)]-, hydrogen	ビス[1-((5-クロロ-2-ヒドロキシフェニル)アゾ)-2-ナフタレンolato(2-)]-, 水素	31586-68-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[1-((5-chloro-2-hydroxyphenyl)azo)-2-naphthalenolato(2-)]-, sodium	ビス[1-((5-クロロ-2-ヒドロキシフェニル)アゾ)-2-ナフタレンolato(2-)]-, ナトリウム	18639-97-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(1-), bis[2-(3-chlorophenyl)-2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-3H-pyrazol-3-onato(2-)]-, hydrogen, compound with [1R-(1.alpha.,4a.beta.,10a.alpha.)]-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-ph	コバルト(1-)ビス[2-(3-クロロフェニル)-2,4-ジヒドロ-4-[[2-ヒドロキシ-5-(メチルスルホニル)フェニル]アゾ]-5-メチル-3H-ピラゾール-3-オン(2-)]-, 水素, 及び[1R-(1.α,4αβ,10αα)]-1,2,3,4,4a,9,10,10a-オクタヒドロ-1,4a-ジメチル-7-(1-メチルエチル)-1-φの混合物	20506-24-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-(3-chlorophenyl)-2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-3H-pyrazol-3-onato(2-)]-, sodium	コバルト(1-)ビス[2-(3-クロロフェニル)-2,4-ジヒドロ-4-[[2-ヒドロキシ-5-(メチルスルホニル)フェニル]アゾ]-5-メチル-3H-ピラゾール-3-オン(2-)]-, ナトリウム	70236-44-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-, hydrogen	コバルト(1-)ビス[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]-, 水素	52256-38-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-, hydrogen, compound with cyclohexanamine (1:1)	コバルト(1-)ビス[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]-, 水素, シクロヘキサミン(1:1)の混合物	71566-27-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-, sodium	コバルト(1-)ビス[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]-, ナトリウム	71839-88-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2,4-dinitro-6-[[2-(phenylamino)-1-naphthalenyl]azo]phenolato(2-)]-, sodium	コバルト(1-)ビス[2,4-ジニトロ-6-[[2-(フェニルアミノ)-1-ナフタレンイル]アゾ]フェネolato(2-)]-, ナトリウム	125378-91-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-amino-1-naphthalenyl]azo]-5-nitrophenolato(2-)]-, hydrogen	コバルト(1-)ビス[2-[[2-アミノ-1-ナフタレンイル]アゾ]-5-ニトロフェネolato(2-)]-, 水素	71566-34-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-amino-1-naphthalenyl]azo]-5-nitrophenolato(2-)]-, sodium	コバルト(1-)ビス[2-[[2-アミノ-1-ナフタレンイル]アゾ]-5-ニトロフェネolato(2-)]-, ナトリウム	68966-98-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-hydroxy-4-nitrophenyl]azo]-1-naphthalenolato(2-)]-, hydrogen	コバルト(1-)ビス[2-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-1-ナフタレンolato(2-)]-, 水素	6421-64-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-hydroxy-4-nitrophenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	コバルト(1-)ビス[2-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, ナトリウム	81361-02-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-hydroxy-5-nitrophenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, hydrogen	コバルト(1-)ビス[2-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, 水素	13011-62-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-hydroxy-5-nitrophenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, hydrogen, compound with 1-butanamine (1:1)	コバルト(1-)ビス[2-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, 水素, 1-ブタンアミン(1:1)の混合物	72797-14-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-hydroxy-5-nitrophenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	コバルト(1-)ビス[2-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, ナトリウム	71566-26-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-hydroxy-5-[[phenylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, ammonium	コバルト(1-)ビス[2-[[2-ヒドロキシ-5-[[フェニルアミノ)スルホニル]フェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, アンモニウム	125408-78-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[2-hydroxy-5-[[phenylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	コバルト(1-)ビス[2-[[2-ヒドロキシ-5-[[フェニルアミノ)スルホニル]フェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, ナトリウム	71562-83-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[4-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	コバルト(1-)ビス[2-[[4-(アミノ)スルホニル]-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, ナトリウム	66104-83-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, hydrogen	コバルト(1-)ビス[2-[[5-(アミノ)スルホニル]-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミdato(2-)]-, 水素	72928-91-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(1-), bis[2-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-], sodium	ビス[2-[[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]-]ナトリウム	72496-88-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-chlorophenyl)-3-oxobutan amidato(2-)]-], sodium	ビス[2-[[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-N-(2-クロロフェニル)-3-オキソブタンアミダト(2-)]-]ナトリウム	34735-28-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-ethylhexyl)-3-oxobutanamidato(2-)]-], sodium	ビス[2-[[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-N-(2-エチルヘキシル)-3-オキソブタンアミダト(2-)]-]ナトリウム	72403-31-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-[4-[[[5-chloro-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]-], sodium	ビス[2-[4-[[[5-クロロ-2-ヒドロキシフェニル]アゾ]-4,5-ジメチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホンアミダト(2-)]-]ナトリウム	74082-15-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-chloro-5-hydroxy-4-[[[2-hydroxy-1-naphthalenyl]azo]-N-methylbenzenesulfonamidato(2-)]-], hydrogen, compound with cyclohexanamine (1:1)	ビス[2-クロロ-5-ヒドロキシ-4-[[[2-ヒドロキシ-1-ナフタレン]アゾ]-N-メチルベンゼンスルホンアミダト(2-)]-]水素、水素とシクロヘキサンアミンの混合物(1:1)	71839-87-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[2-chloro-5-hydroxy-4-[[[2-hydroxy-1-naphthalenyl]azo]-N-methylbenzenesulfonamidato(2-)]-], sodium	ビス[2-クロロ-5-ヒドロキシ-4-[[[2-ヒドロキシ-1-ナフタレン]アゾ]-N-メチルベンゼンスルホンアミダト(2-)]-]ナトリウム	70179-69-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-], hydrogen	ビス[3-[[[4,5-ジメチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]-]水素	68568-52-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-], sodium, (OC-6-22)-	ビス[3-[[[4,5-ジメチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]-]ナトリウム	34664-47-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxy-N-(1-methylethyl)benzenesulfonamidato(2-)]-], hydrogen, compound with 2-propanamine (1:1)	ビス[3-[[[4,5-ジメチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-(1-メチルエチル)ベンゼンスルホンアミダト(2-)]-]水素と2-プロパンアミンの混合物(1:1)	71839-74-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxy-N-[3-(1-methylethoxy)propyl]benzenesulfonamidato(2-)]-], sodium	ビス[3-[[[4,5-ジメチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-[3-(1-メチルエトキシ)プロピル]ベンゼンスルホンアミダト(2-)]-]ナトリウム	72479-33-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[8-hydroxy-5-quinolinyl]azo]benzenesulfonato(2-)]-], sodium	ビス[3-[[[8-ヒドロキシ-5-キノリン]アゾ]ベンゼンスルホンアト(2-)]-]ナトリウム	72905-57-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[1-(2,5-dichlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-], sodium	ビス[3-[[[1-(2,5-ジクロロフェニル)-4,5-ジメチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]-]ナトリウム	75214-67-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-], sodium	ビス[3-[[[1-(3-クロロフェニル)-4,5-ジメチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]-]ナトリウム	73612-40-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-], sodium	ビス[3-[[[1-(3-クロロフェニル)-4,5-ジメチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホンアミダト(2-)]-]ナトリウム	71701-14-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-], hydrogen	ビス[3-[[[1-(4-クロロフェニル)-4,5-ジメチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホンアミダト(2-)]-]水素	67952-74-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-], sodium	ビス[3-[[[1-(4-クロロフェニル)-4,5-ジメチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホンアミダト(2-)]-]ナトリウム	71566-39-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(1-), bis[3-[[4,5-dihydro-3-methyl-1-(4-methylphenyl)-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-, sodium	ビス[3-[[4, 5-ジヒドロ-3-メチル-1-(4-メチルフェニル)-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホンアミド(2-)]ナトリウム	70281-40-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[3-[[4-[[5-chloro-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]-, sodium	ビス[3-[[4-[[5-クロロ-2-ヒドロキシフェニル]アゾ]-4, 5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホンアミド(2-)]ナトリウム	72403-34-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)amino]-N-(3-methoxypropyl)benzenesulfonamidato(2-)-N3,O3,O4]-, sodium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アミノ]-N-(3-メトキシプロピル)ベンゼンスルホンアミド(2-)-N3,O3,O4]-ナトリウム	71735-52-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, ammonium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]ベンゼンスルホンアミド(2-)]アンモニウム	63971-70-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]ベンゼンスルホンアミド(2-)]水素化合物(1:1)	50525-57-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]ベンゼンスルホンアミド(2-)]水素化合物(1:1)	71839-84-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, lithium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]ベンゼンスルホンアミド(2-)]リチウム	125252-57-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]ベンゼンスルホンアミド(2-)]ナトリウム	58302-43-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]-N-(1-methylethyl)benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-N-(1-メチルエチル)ベンゼンスルホンアミド(2-)]ナトリウム	72391-09-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]-N-(2-methoxyethyl)benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-N-(2-メトキシエチル)ベンゼンスルホンアミド(2-)]ナトリウム	70247-76-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]-N-(3-methoxypropyl)benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-N-(3-メトキシプロピル)ベンゼンスルホンアミド(2-)]ナトリウム	71735-61-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato (2-)]-, ammonium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-N-メチルベンゼンスルホンアミド(2-)]アンモニウム	83847-06-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato (2-)]-, lithium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-N-メチルベンゼンスルホンアミド(2-)]リチウム	83804-08-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[2-(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato (2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-N-メチルベンゼンスルホンアミド(2-)]ナトリウム	83804-07-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[5-(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfonamide, -dioxidato(2-)]-, ammonium	ビス[4-ヒドロキシ-3-[[5-(5-ヒドロキソナフタ[2,1-d]-1,3-オキサチオール-4-イル)アゾ]ベンゼンスルホンアミド(2-)]アンモニウム	83864-23-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[4-hydroxy-3-[[5-(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfonamide, -dioxidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[5-(5-ヒドロキソナフタ[2,1-d]-1,3-オキサチオール-4-イル)アゾ]ベンゼンスルホンアミド(2-)]ナトリウム	83817-79-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[5-[[5-(5-chloro-2-hydroxyphenyl)azo]-6-hydroxy-N-(2-hydroxyethyl)-N-methyl-2-naphthalenesulfonamidato(2-)]-, sodium	ビス[5-[[5-(5-クロロ-2-ヒドロキシフェニル)アゾ]-6-ヒドロキシ-N-(2-ヒドロキシエチル)-N-メチル-2-ナフタレンスルホンアミド(2-)]ナトリウム	70236-43-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(1-), bis[6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-methyl-2-naphthalenesulfonamidato(2-)]-, sodium	ビス[6-アミノ-5-[(2-ヒドロキシ-4-ニトロフェニル)アゾ]-N-メチル-2-ナフthalenesulfonamidato(2-)]-, ナトリウム	70236-59-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[hydrogen 3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitro-1-naphthalenesulfonato(2-)]-	ビス[3-ヒドロキシ-4-[(2-ヒドロキシ-1-ナフthyl)アゾ]-7-ニトロ-1-硫酸ナフthyl(2-) 水素]ナトリウム	26921-01-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[methyl 8-[[4-(aminosulfonyl)-2-hydroxy-5-methoxyphenyl]azo]-7-hydroxy-1-naphthalenyl]carbamato(2-)]-, sodium	ビス[メチル8-[[4-(アミノスルホニル)-2-ヒドロキシ-5-メトキシフェニル]アゾ]-7-ヒドロキシ-1-ナフthalenyl]カルバマト(2-)]-, ナトリウム	73507-63-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2-hydroxy-5-[[[methylamino)sulfonyl]phenyl]azo]-3-oxobutanamidato(2-)]-, sodium	ビス[N-(2-クロロフェニル)-2-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル]アゾ]-3-オキsobutanamidato(2-)]-, ナトリウム	70247-73-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2-hydroxy-5-[[[methylamino)sulfonyl]phenyl]azo]-3-oxobutanamidato(2-)]-, sodium	ビス[N-(2-クロロフェニル)-2-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル]アゾ]-3-オキsobutanamidato(2-)]-, ナトリウム	70247-74-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[N-[[2-chlorophenyl)-2-[[2-hydroxy-5-[[[methylamino)sulfonyl]phenyl]azo]-3-oxobutanamidato(2)]-, hydrogen	ビス[N-[[2-クロロフェニル)-2-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル]アゾ]-3-オキsobutanamidato(2)]-, 水素	55963-70-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[N-[[2-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-5-methylphenyl]acetamidato(2-)]-, sodium	ビス[N-[[2-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチルフェニル]アセチルアミダト(2-)]-, ナトリウム	71735-59-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[N-[[7-hydroxy-8-[[2-hydroxy-5-[[[methylamino)sulfonyl]phenyl]azo]-1-naphthalenyl]acetamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	ビス[N-[[7-ヒドロキシ-8-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル]アゾ]-1-ナフthalenyl]アセチルアミダト(2-)]-, 水素と2-プロpanアミンの混合物(1:1)	71839-76-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(1-), bis[N-[[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]-, sodium	ビス[N-[[8-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-1-ナフthalenyl]アセチルアミダト(2-)]-, ナトリウム	68966-95-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [[N,N',1,2-ethanediy]bis[N-(carboxymethyl)glycinato(4-)-N,N',O,O',ON,ON']-, (OC-6-21)-	エチレンジアミン四酢酸カルシウム	14931-83-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, disodium	[1-[[5-クロロ-2-ヒドロキシフェニル)アゾ]-2-ナフthalenolato(2-)]][3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフthalenyl)アゾ]-7-ニトロ-1-硫酸ナフthyl(3-)]-, ナトリウム	125378-88-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, sodium hydrogen	[1-[[5-クロロ-2-ヒドロキシフェニル)アゾ]-2-ナフthalenolato(2-)]][3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフthalenyl)アゾ]-7-ニトロ-1-硫酸ナフthyl(3-)]-, ナトリウム水素	71243-97-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]][2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, disodium	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]][2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフthalenyl]アゾ]フェニル]スルホニル]アミノ]ベンゾアト(3-)]-, ナトリウム	82556-13-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]][2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, sodium hydrogen	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]][2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフthalenyl]アゾ]フェニル]スルホニル]アミノ]ベンゾアト(3-)]-, ナトリウム水素	73455-76-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, dihydrogen	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]][3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフthalenyl)アゾ]-7-ニトロ-1-硫酸ナフthyl(3-)]-, 水素	72987-06-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, dihydrogen, compound with 2,2'-iminobis[ethanol] (1:2)	[2, 4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]-[3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフthalenyl]アゾ]-7-ニトロ-1-ナフthalenesulfonato(3-)]ジハイドロゲン化合物(2,2'-イミノビスエタノールの混合物(1:2))	72987-07-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [2,4-dinitro-6-[[2-(phenylamino)-1-naphthalenyl]azo]phenolato(2-)]-[3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, sodium hydrogen	[2, 4-ジニトロ-6-[[2-(フェニルアミノ)-1-ナフthalenyl]アゾ]フェノレート(2-)]-[3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフthalenyl]アゾ]-7-ニトロ-1-ナフthalenesulfonato(3-)]ナトリウム水素	72102-52-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-ethylhexyl)-3-oxobutanamido(2-)]-[4-[[1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphthalenyl]amino]benzenesulfonato(3-)]-, dipotassium	[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-N-(2-エチルヘキシル)-3-オキsobutanamido(2-)]-[4-[[1-[[2-ヒドロキシ-3,5-ジニトロフェニル]アゾ]-2-ナフthalenyl]アミノ]ベンゼンスルホネート(3-)]ジポタシウム	68928-31-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, dihydrogen	29H,31H-フthalocyanine-C,C-ジスルホネート(4-)-N29,N30,N31,N32-ジニトロゲン	29383-29-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium	29H,31H-フthalocyanine-C,C-ジスルホネート(4-)-N29,N30,N31,N32-ジナトリウム	61045-13-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), [6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-methyl-2-naphthalenesulfonamido(2-)]-[6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenesulfonato(3-)]-, disodium	[6-アミノ-5-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-N-メチル-2-ナフthalenesulfonamido(2-)]-[6-アミノ-5-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-2-ナフthalenesulfonato(3-)]ジナトリウム	75314-27-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamido(2-)]-, dihydrogen	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキso-N-フェニルブタンアミド(2-)]ジニトロゲン	12715-61-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamido(2-)]-, dilithium	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキso-N-フェニルブタンアミド(2-)]ジリチウム	67906-22-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamido(2-)]-, disodium	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキso-N-フェニルブタンアミド(2-)]ジナトリウム	75522-91-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamido(2-)]-, dilithium, (OC-6-22)-	ビス[3-[[4, 5-ジヒドロ-3-メチル-5-オキso-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホネート(2-)]ジリチウム(OC-6-22)-	67906-23-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamido(2-)]-, disodium, (OC-6-22)-	ビス[3-[[4, 5-ジヒドロ-3-メチル-5-オキso-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホネート(2-)]ジナトリウム(OC-6-22)-	72208-07-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamido(2-)]-, lithium sodium, (OC-6-22)-	ビス[3-[[4, 5-ジヒドロ-3-メチル-5-オキso-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホネート(2-)]リチウムナトリウム(OC-6-22)-	75557-21-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[3-[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamido(2-)]-, disodium	ビス[3-[[1-(3-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキso-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホネート(2-)]ジナトリウム	70529-03-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(2-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamido(2-)]-, disodium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフthalenyl]アゾ]ベンゼンスルホネート(2-)]ジナトリウム	71060-75-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(3-), [4-amino-3-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)]-[5-amino-6-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)]-, trisodium	[4-アミノ-3-[[2-ヒドロキシ-3,5-ジニトロフェニル]アゾ]-1-ナフthalenesulfonato(3-)]-[5-アミノ-6-[[2-ヒドロキシ-3,5-ジニトロフェニル]アゾ]-1-ナフthalenesulfonato(3-)]トリナトリウム	82457-28-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cobaltate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-, triammonium, (T-4)-	[N,N-ビス(ホスホノメチル)グリシナト(5-)]コバルト酸(3-)三アンモニウム	67968-65-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-, tripotassium, (T-4)-	[N,N-ビス(ホスホノメチル)グリシナト(5-)]コバルト酸(3-)三カリウム	63597-33-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-, trisodium, (T-4)-	[N,N-ビス(ホスホノメチル)グリシナト(5-)]コバルト酸(3-)三ナトリウム	67968-66-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[2-[[[3-[[1-[[[2-chlorophenyl]amino]carbonyl]-2-oxopropyl]azo]-4-hydroxyphenyl]sulfonyl]amino]benzoato(3-)]-, trisodium	ビス[2-[[[3-[[1-[[[2-クロロフェニル]アミノ]カルボニル]-2-オキソプロピル]アゾ]-4-ヒドロキシフェニル]スルfonyル]アミノ]ベンゾエート(3-)]コバルト酸(3-)三ナトリウム	73612-41-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, trisodium	ビス[2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフタレンイル]アゾ]フェニル]スルfonyル]アミノ]ベンゾエート(3-)]コバルト酸(3-)三ナトリウム	82556-12-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, sodium dihydrogen	ビス[2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフタレンイル]アゾ]フェニル]スルfonyル]アミノ]ベンゾエート(3-)]コバルト酸(3-)ナトリウム二水素	72829-33-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-oxo-1-(phenylamino)carbonyl]propyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, sodium dihydrogen	ビス[2-[[[4-ヒドロキシ-3-[[2-オキソ-1-(フェニルアミノ)カルボニル]プロピル]アゾ]フェニル]スルfonyル]アミノ]ベンゾエート(3-)]コバルト酸(3-)ナトリウム二水素	73018-84-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[2-hydroxy-5-nitro-3-[[2-oxo-1-(phenylamino)carbonyl]propyl]azo]benzenesulfonato(3-)]-, sodium dihydrogen	ビス[2-ヒドロキシ-5-ニトロ-3-[[2-オキソ-1-(フェニルアミノ)カルボニル]プロピル]アゾ]ベンゼンスルfoネート(3-)]コバルト酸(3-)ナトリウム二水素	73507-73-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[3-hydroxy-4-[[2-(hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, trisodium	ビス[3-ヒドロキシ-4-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-7-ニトロ-1-ナフタレンイル]アゾ]ベンゼンスルfoネート(3-)]コバルト酸(3-)三ナトリウム	125378-89-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[3-hydroxy-4-[[2-(hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, trihydrogen	ビス[3-ヒドロキシ-4-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-7-ニトロ-1-ナフタレンイル]アゾ]ベンゼンスルfoネート(3-)]コバルト酸(3-)三水素	72797-08-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[3-hydroxy-4-[[2-(hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, compound with 2,2'-iminobis[ethanol] (1:3)	ビス[3-ヒドロキシ-4-[[2-(2-ヒドロキシ-1-ナフタレンイル)アゾ]-7-ニトロ-1-ナフタレンイル]アゾ]ベンゼンスルfoネート(3-)]コバルト酸(3-)三水素と2,2'-イミノビスエタノールの混合物(1:3)	72797-09-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[3-hydroxy-7-nitro-4-[[1,2,3,4-tetrahydro-2,4-dioxo-3-quinolinyl]azo]-1-naphthalenesulfonato(3-)]-, trisodium	ビス[3-ヒドロキシ-7-ニトロ-4-[[1,2,3,4-テトラヒドロ-2,4-ジオキソ-3-キノリニル]アゾ]-1-ナフタレンイル]アゾ]ベンゼンスルfoネート(3-)]コバルト酸(3-)三ナトリウム	74196-11-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[4-[[2-[[2-(hydroxy-5-nitrophenyl)azo]-1,3-dioxobutyl]amino]-5-methoxy-2-methylbenzenesulfonato(3-)]-, trihydrogen	ビス[4-[[2-[[2-(2-ヒドロキシ-5-ニトロフェニル)アゾ]-1,3-ジオキソブチル]アミノ]-5-メトキシ-2-メチルベンゼンスルfoネート(3-)]コバルト酸(3-)三水素	62598-42-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[4-[4-[[[3-[[4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxyphenyl]sulfonyl]amino]phenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonato(3-)]-, trisodium	ビス[4-[4-[[[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシフェニル]スルfonyル]アミノ]フェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルfoネート(3-)]コバルト酸(3-)三ナトリウム	75234-42-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[4-[4-[[[4-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]phenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonato(3-)]-, trisodium	ビス[4-[4-[[[4-[[5-(アミノスルfoニル)-2-ヒドロキシフェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]フェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルfoネート(3-)]コバルト酸(3-)三ナトリウム	75214-72-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[5-chloro-2-hydroxy-3-[[2-oxo-1-(phenylamino)carbonyl]propyl]azo]benzenesulfonato(3-)]-, trisodium	ビス[5-クロロ-2-ヒドロキシ-3-[[2-オキソ-1-(フェニルアミノ)カルボニル]プロピル]アゾ]ベンゼンスルfoネート(3-)]コバルト酸(3-)三ナトリウム	73324-01-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p pm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cobaltate(3-), bis[6-amino-5-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)]-, sodium dihydrogen	ビス[6-アミノ-5-[(2-ヒドロキシ-3,5-ジニトロフェニル)アゾ]-1-ナフthalenesulfonato(3-)]-ナトリウム二水素	73297-10-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), bis[6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenesulfonato(3-)]-, trisodium	ビス[6-アミノ-5-[(2-ヒドロキシ-4-ニトロフェニル)アゾ]-2-ナフthalenesulfonato(3-)]-ナトリウム三ナトリウム	77630-54-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), hexakis(cyano-C)-, cobalt(2+) (2:3), (OC-6-11)-	ヘキサシアノコバルト(II)(2:3)	14123-08-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), hexakis(cyano-C)-, zinc (2:3), (OC-6-11)-	ヘキサシアノコバルト(II)亜鉛(2:3)三ナトリウム	14049-79-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), hexakis(nitrito-N)-, tripotassium, (OC-6-11)-	ヘキサニトロコバルト(III)酸カリウム	13782-01-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), hexakis(nitrito-O)-, trisodium, (OC-6-11)-	ヘキサ亜硝酸コバルト(III)酸三ナトリウム	14649-73-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(3-), tris[6-hydroxy-5-nitroso-2-naphthalenesulfonato(2-)]-, trisodium	トリス[6-ヒドロキシ-5-ニトロソ-2-ナフthalenesulfonato(2-)]-ナトリウム三ナトリウム	67815-64-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(4-), [[[[nitrioltris(methylene)]tris(phosphonato)](6-)-N,OP,OP,OP]]-, tetrapotassium, (T-4)-	[[[[ニトリトリス(メチレン)]トリス(ホスホン酸)](6-)-N,OP,OP,OP]]-ナトリウム四カリウム	63588-34-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(4-), [[[[nitrioltris(methylene)]tris(phosphonato)](6-)-N,OP,OP,OP]]-, tetrasodium, (T-4)-	[[[[ニトリトリス(メチレン)]トリス(ホスホン酸)](6-)-N,OP,OP,OP]]-ナトリウム四ナトリウム	68000-01-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(4-), [[[[nitrioltris(methylene)]tris(phosphonato)](6-)-N,OP,OP,OP]]-, triammonium hydrogen, (T-4)-	[[[[ニトリトリス(メチレン)]トリス(ホスホン酸)](6-)-N,OP,OP,OP]]-ナトリウム四アモニウム一水素水素	67968-64-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(4-), [29H,31H-phthalocyanine-2,9,16,23-tetrasulfonato(6-)-N29,N30,N31,N32]-, tetrahydrogen, (SP-4-1)-	[29H,31H-フthalocyanin-2,9,16,23-テトラスルホン酸(6-)-N29,N30,N31,N32]-四水素コバルト(4-)	14285-59-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(4-), bis[2-[[[3-[[[1-[[[2-chlorophenyl]amino]carbonyl]-2-oxopropyl]azo]-4-hydroxyphenyl]sulfonyl]amino]benzoato(3-)]-, tetrasodium	ビス[2-[[[3-[[[1-[[[2-クロロフェニル]アミノ]カルボニル]-2-オキソプロピル]アゾ]-4-ヒドロキシフェニル]スルfonyル]アミノ]ベンゾエート(3-)]-ナトリウム四ナトリウム	70851-34-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)-	テトラシアノコバルト(II)酸四カリウム	14564-70-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(4-), hexakis(cyano-C)-, tetrasodium, (OC-6-11)-	ヘキサシアノコバルト(II)酸四ナトリウム(炭素数6-11)	14217-00-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(5-), bis[4-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-[[4-chloro-6-[[4-[4,5-dihydro-4-[(2-hydroxy-5-sulfophenyl)azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]phenyl]amino]-1,3,5-triazin-2-yl]amino]benzenesulfonato(4-)]-, pentasodium	ビス[4-[(5-クロロ2,6-ジフルオロ4-ピリミジン-4-イル)アミノ]-2-[[4-クロロ6-[[4-[4,5-ジヒドロ4-[(2-ヒドロキシ5-スルホフェニル)アゾ]-3-メチル5-オキソ-1H-ピラゾール-1-イル]フェニル]アミノ]-1,3,5-トリアジン-2-イル]アミノ]ベンゼンスルホン酸(4-)]-ナトリウム五ナトリウム	83417-32-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(5-), bis[4-[[[6-[[[4-chloro-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-3-hydroxy-7-nitro-1-naphthalenesulfonato(4-)]-, pentasodium	ビス[4-[[[6-[[[4-クロロ6-(フェニルアミノ)-1,3,5-トリアジン-2-イル]アミノ]-1-ヒドロキシ3-スルホ-2-ナフthalen-1-イル]アゾ]-3-ヒドロキシ7-ニトロ-1-ナフthalenesulfonato(4-)]-ナトリウム五ナトリウム	75284-36-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																
Cobaltate(5-), bis[4-[[[4-[[[3-[[[4,5-dihydro-3-methyl-5-oxo-1-(4-sulfophenyl)-1H-pyrazol-4-yl]azo]-4-hydroxyphenyl]sulfonyl]amino]phenyl]azo]-1,4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonato(4-)]-, pentasodium	ビス[4-[[[4-[[[3-[[[4,5-ジヒドロ3-メチル5-オキソ-1-(4-スルホフェニル)-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシフェニル]スルfonyル]アミノ]フェニル]アゾ]-1,4,5-ジヒドロ3-メチル5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸(4-)]-ナトリウム五ナトリウム	75214-71-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobaltate(5-), bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-5-[(2,5,6-trichloro-4-pyrimidinyl)amino]-2,7-naphthalenedisulfonato(4-)]-, pentasodium	七二五アゾ]・5-[(2,5,6-トリクロロ-4-ピリミジン-2-イル)アミノ]-2,7-ナフタレニルスルホン酸(4-)]二ナトリウム五ナトリウム	74196-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[5-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, pentasodium	七二五アゾ]・5-[(4,6-ジクロロ-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2,7-ナフタレニルスルホン酸(4-)]二ナトリウム五ナトリウム	104815-53-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, pentasodium	七二五アゾ]・5-[(4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2,7-ナフタレニルスルホン酸(4-)]二ナトリウム五ナトリウム	79817-88-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, tetrapotassium sodium	七二五アゾ]・5-[(4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2,7-ナフタレニルスルホン酸(4-)]四ナトリウム一ナトリウム	73038-30-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, tetrasodium hydrogen	七二五アゾ]・5-[(4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2,7-ナフタレニルスルホン酸(4-)]四ナトリウム一水素	70776-55-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[5-[(4-chloro-6-methoxy-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, tetrasodium hydrogen	七二五アゾ]・5-[(4-クロロ-6-メトキシ-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2,7-ナフタレニルスルホン酸(4-)]四ナトリウム一水素	68132-93-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[6-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitro-3-sulphophenyl)azo]-2-naphthalenesulfonato(4-)]-, tetrapotassium sodium	七二五アゾ]・6-[(5-クロロ-2,6-ジフルオロ-4-ピリミジン-4-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロ-3-スルホフェニル)アゾ]-2-ナフタレニルスルホン酸(4-)]四ナトリウム一ナトリウム	74196-12-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[6-amino-5-[(2-hydroxy-5-[(2-sulfoxyethyl)sulfonyl]phenyl)azo]-1-naphthalenesulfonato(4-)]-, potassium sodium	七二五アゾ]・6-アミノ-5-[(2-ヒドロキシ-5-[(2-スルホエチル)スルfonyル]フェニル)アゾ]-1-ナフタレニルスルホン酸(4-)]二ナトリウム一ナトリウム	72269-32-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(5-), bis[7-hydroxy-8-[(2-hydroxy-5-nitro-3-sulphophenyl)azo]-6-[(2,5,6-trichloro-4-pyrimidinyl)amino]-2-naphthalenesulfonato(4-)]-, pentasodium	七二五アゾ]・7-ヒドロキシ-8-[(2-ヒドロキシ-5-ニトロ-3-スルホフェニル)アゾ]-6-[(2,5,6-トリクロロ-4-ピリミジン-2-イル)アミノ]-2-ナフタレニルスルホン酸(4-)]二ナトリウム五ナトリウム	74196-13-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(7-), [5-[[4-chloro-6-[[5-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-sulphophenyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-hydroxy-5-sulphophenyl)azo]-2,7-naphthalenedisulfonato(6-)]][4-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-[[	七二五アゾ]・5-[[4-クロロ-6-[[5-[(5-クロロ-2,6-ジフルオロ-4-ピリミジン-2-イル)アミノ]-2-スルホフェニル]アミノ]-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-スルホフェニル)アゾ]-2,7-ナフタレニルスルホン酸(6-)]][4-[[5-クロロ-2,6-ジフルオロ-4-ピリミジン-2-イル)アミノ]-2-[[	83417-33-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(7-), bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[(3-phosphonophenyl)amino]-2-naphthalenesulfonato(5-)]-, disodium pentahydrogen	七二五アゾ]・4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-7-[[3-ホスホフェニル)アミノ]-2-ナフタレニルスルホン酸(5-)]二ナトリウム五水素	69898-68-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(7-), bis[4-hydroxy-5-[(2-hydroxy-1-naphthalenyl)azo]-3-[(2-hydroxy-3-nitro-5-sulphophenyl)azo]-2,7-naphthalenedisulfonato(5-)]-, heptasodium	七二五アゾ]・4-ヒドロキシ-5-[(2-ヒドロキシ-1-ナフタレニル)アゾ]-3-[(2-ヒドロキシ-3-ニトロ-5-スルホフェニル)アゾ]-2,7-ナフタレニルスルホン酸(5-)]七ナトリウム	74196-18-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(8-), bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[(3-phosphonophenyl)amino]-2-naphthalenesulfonato(5-)]-, tetraammonium tetrahydrogen	七二五アゾ]・4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-7-[[3-ホスホフェニル)アミノ]-2-ナフタレニルスルホン酸(5-)]四アンモニウム四水素	70833-34-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltate(9-), bis[5-[[4-chloro-6-[[5-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-sulphophenyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-hydroxy-5-sulphophenyl)azo]-2,7-naphthalenedisulfonato(6-)]-, nonasodium	七二五アゾ]・5-[[4-クロロ-6-[[5-[(5-クロロ-2,6-ジフルオロ-4-ピリミジン-2-イル)アミノ]-2-スルホフェニル]アミノ]-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[(2-ヒドロキシ-5-スルホフェニル)アゾ]-2,7-ナフタレニルスルホン酸(6-)]九ナトリウム	83417-34-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobalt-dinitrate	硝酸コバルト(Ⅱ)	10141-05-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●											●			
Cobaltocene	コバルトセンニウム	1277-43-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltocenium hexafluorophosphate(1-)	六フッ化少コバルト	12427-42-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltocenium, (T-4)-tetrachlorocobaltate(2-) (2:1)	コバルトセンニウム, (T-4)-テトラクロロコバルト酸塩(2-) (2:1)	11077-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltous bromide	臭化コバルト(Ⅱ)	7789-43-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobaltous chloride	二塩化コバルト	7646-79-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●											●			
Cobaltous sulfamate	硫酸コバルト	14017-41-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cyclohexanebutanoic acid, cobalt(2+) salt	シクロヘキサノイルコバルト(Ⅱ)塩	38582-17-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Di(acetato-O)(1,4-diazabicyclo[2.2.2]octane-N1)cobalt	ジ(アセト-O)(1,4-ジアザビシクロ[2.2.2]オクタ-N1)コバルト	68239-55-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Di-μ-carbonyltetracarbonylbis(triphenylphosphine)dicobalt	ジ-μ-カルボニルテトラカルボニルビス(トリフェニルホスフィン)二コバルト	24212-54-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Diammonium pentahydrogen bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[[3-phosphonophenyl]amino]naphthalene-2-sulfonate(5-)]cobaltate(7-)	ビス[4-ヒドロキシ-3-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-7-[[3-ホスホノフェニル]アミノ]ナフタレン-2-スルホン酸(5-)]コバルト酸(7-)	83803-62-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Diboron cobalt(2+) tetraoxide	四酸化コバルト(Ⅱ)	38233-75-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dicarbonyl(eta-5-2,4-cyclopentadien-1-yl)cobalt	ジカルボニル(η-5-2,4-シクロペンタジエン-1-イル)コバルト	12078-25-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dichloro(1,4-diazabicyclo[2.2.2]octane-N1)cobalt	ジクロロ(1,4-ジアザビシクロ[2.2.2]オクタ-N1)コバルト	68239-57-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dichlorobis(3-pyridylcarboxamide-N1)cobalt	ジクロロビス(3-ピリジルカルボキサミド-N1)コバルト	6856-47-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dicobalt edetate	[[N,N'-1,2-エタナジイル]ビス[N-(カルボキシル)グリシナト]]コバルト酸(Ⅱ)	36499-65-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dicobalt orthosilicate	二コバルトケイ酸コバルト	13455-33-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dicobalt tris(sulphate)	三硫酸コバルト(Ⅲ)	13478-09-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dicobalt(2+) nickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	ビス[2-ヒドロキシプロパン-1,2,3-トリカルボキシル]二コバルト(Ⅱ)ニッケル(Ⅱ)	94232-84-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●														
Dihydrogen bis[L-glutamato(2-)-N,O1]cobaltate(2-)	ビス[L-グルタミン酸(2-)-N,O1]コバルト酸(2-) 二水素	19224-80-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforce- ment Act of 1986 (California state law)	TSCA
Diphosphoric acid, cobalt(2+) salt (1:2)	二リン酸コバルト(2+)塩(1:2)	14640-56-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dipotassium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON]cobaltate(2-)	[[N,N'-エチレン]ビス[N-(カルボキシル)グリシノ]アミン](4-)-N,N',O,O',ON,ON]コバルト(2-)二カリウム	14025-10-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Dipotassium disulphatocobaltate	硫酸コバルト	13596-22-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Disodium [5-[[1-(anilino)carbonyl]-2-oxopropyl]azo]-4-hydroxy-3-nitrobenzenesulphonato(3-)-[2-[[2-hydroxy-5-nitrophenyl]azo]-3-oxo-N-phenylbutyramidato(2-)]cobaltate(2-)	[5-[[1-(アニリノ)カルボニル]-2-オキソプロピル]アゾ]-4-ヒドロキシ-3-ニトロベンゼンサルフェイナト(3-)-[2-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-オキソ-N-フェニルブチラミダト(2-)]コバルト(2-)二ナトリウム	76762-27-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Electrolytes, cobalt-manufacturing A solution used in the electrolytic refining of cobalt. The composition varies according to the particular process involved. The electrolyte generally contains high levels of cobalt ions and lower levels of impurity me	電解質。コバルトの電解精製において使用されるコバルト生成溶液。組成は処理工程により異なる。電解質は通常、高濃度のコバルトと少量の不純物を含有する。	121053-28-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Fatty acids, soya, polymers with acetic acid, fumaric acid, linseedoil, maleic anhydride, pentaerythritol, rosin, tall oil, tall-oil fatty acids and triptaerythritol, cobalt salts	重合物である酢酸、フマル酸、アコ油、無水マレイン酸、ヘンタエリトリール、ロジン、トール油、脂肪酸トール油、トール油トリタエリトリールや大豆油脂肪酸のコバルト塩	70131-61-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Formic acid, cobalt salt	ホルム酸コバルト塩	15731-88-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Heptahydrogen bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[(3-phosphonophenyl)amino]naphthalene-2-sulphonato(5-)]cobaltate(7-)	ヒス[4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-7-[[3-ホスホフェニル]アミノ]ナフタレン-2-スルホナト(5-)]コバルト(7-)七水素	65335-15-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hexa(cyano-c)cobaltate(4-)	六シアノ-Cコバルト(4-)	23209-26-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hexanoic acid, 3,5,5-trimethyl-, cobalt(2+) salt	3,5,5-トリメチルヘキサノ酸コバルト(II)	49676-83-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrazinium(1+), (OC-6-21)-[[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON]cobaltate(2-) (2:1)	ヒドラージニウム(1+) (OC-6-21)-[[N,N'-1,2-エチレンジイ]ビス[N-(カルボキシル)グリシノ]アミン](4-)-N,N',O,O',ON,ON]コバルト(2-) (2:1 混合)	68201-98-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrofluoric acid, reaction products with alumina and cobalt chloride (CoCl2)	酸化アルミニウム塩化コバルト反応生成物	68442-96-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen [2,4-dihydro-4-[[2-hydroxy-4-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]1-[[2-hydroxy-4-nitrophenyl]azo]-2-naphtholato(2-)]cobaltate(1-)	[2,4-ジヒドロ-4-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]1-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-2-ナフタレン(2-)]コバルト(1-)水素	52277-72-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen [2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)]3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	ヒス[2-[[5-(アミノサルフェイニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブチラミダト(2-)]3-[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンサルフェイナト(2-)]コバルト(1-) 水素	83249-70-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen bis[1-[(2-hydroxy-4-nitrophenyl)azo]naphthalen-2-olato(2-)]cobaltate(1-)	ヒス[1-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-2-ナフタレン(2-)]コバルト(1-)水素	32517-38-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen bis[2,4-dihydro-4-[[2-hydroxy-4-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]cobaltate(1-)	ヒス[2,4-ジヒドロ-4-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]コバルト(1-) 水素	84030-59-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen bis[2,4-dihydro-4-[[2-hydroxy-5-methylphenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]cobaltate(1-)	ヒス[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-メチルフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オン(2-)]コバルト(1-) 水素	29998-71-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Hydrogen bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutyramidato(2-)]cobaltate(1-), compound with 2,2'-dodecyliminobis[ethanol] (1:1)	ヒス[2-[[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-オキソ-N-フェニルブチラミダト(2-)]コバルト酸(1-)・水素トドデシルイミンビス[エタノール]混合物(1:1)	84030-58-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	ヒス[3-[[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]コバルト酸(1-) 水素	83249-73-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen bis[5,8-dichloro-2-[(2-hydroxy-4-nitrophenyl)azo]-1-naphtholato(2-)]cobaltate(1-), compound with cyclohexylamine (1:1)	ヒス[5, 8-ジクロロ-2-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-1-ナフタレン酸(2-)]コバルト酸(1-)・水素シクロヘキシルアミンの混合物(1:1)	82338-72-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen bis[5,8-dichloro-2-[(2-hydroxy-5-nitrophenyl)azo]-1-naphtholato(2-)]cobaltate(1-), compound with cyclohexylamine (1:1)	ヒス[5, 8-ジクロロ-2-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-1-ナフタレン酸(2-)]コバルト酸(1-)・水素シクロヘキシルアミンの混合物(1:1)	82338-74-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Hydrogen bis[N-(7-hydroxy-8-[[2-hydroxy-5-mesitylphenyl]azo]-1-naphthyl)cobaltate(1-)]	ヒス[N-(7-ヒドロキシ-8-[[2-ヒドロキシ-5-メシルフェニル]アゾ]-1-ナフチル)コバルト酸(1-)水素	29616-23-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Isononanoic acid, cobalt salt	イソノナン酸コバルト(混合)	57364-75-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Leach residues, zinc ore-calcine, cobalt repulp	コバルト再溶解の亜鉛焼材の鉛残留物	69012-71-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Lithium [2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)]][3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	ヒス[2-[[[5-(アミノスルホン基)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブチラミダト(2-)]][3-[[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]コバルト酸(1-) リチウム	83270-30-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Lithium bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutyramidato(2-)]cobaltate(1-)	3-オキソ-N-フェニルブチラミダト(2-)]コバルト酸(1-) リチウム	83733-13-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Lithium bis[2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutyramidato(2-)]cobaltate(1-)	ヒス[2-[[[5-(アミノスルホン基)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブチラミダト(2-)]コバルト酸(1-) リチウム	83249-68-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Lithium bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	ヒス[3-[[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]コバルト酸(1-) リチウム	83249-72-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Lithium nickel cobalt aluminum oxide	リチウムニッケルコバルトアルミニウム酸化物	177997-13-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Molybdate (Mo7O246-), cobalt(3+) (2:1)	モリブデン酸(Mo7O246-)コバルト(3+)混合物(2:1)	68647-47-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
N,N'-Ethylenebis(glycinato-O,N)cobalt	N,N'-エチレンジアミン(グリシン酸-O,N)コバルト	29977-10-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Naphthenic acid, cobalt lead manganese salt	ナフテン酸コバルト鉛マンガニン塩(混合)	61789-50-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●														
Neodecanoic acid, cobalt(2+) salt	ネオデカン酸コバルト(II)	52270-44-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Nitric acid, cobalt(3+) salt	硝酸コバルト	15520-84-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Octadecanoic acid, cobalt salt	ステアリン酸コバルト(II)	13586-84-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Octanoic acid, cobalt salt	オクタノ酸コバルト	6700-85-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Pentapotassium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]naphthalene-2,7-disulphonato(4-)]cobaltate(5-)	5-[5-[[4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル)アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル)アゾ]ナフthalen-2,7-ジスルホン酸(4-)]コバルト(5-)五ケタム	79817-89-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Perchloric acid, cobalt(2+) salt	過塩素酸コバルト	13455-31-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Phosphonic acid, (1-hydroxyethylidene)bis-, ammonium cobalt(2+) salt (1:2:1)	1-ヒト*ヒドロキシエチリデン*ビス(ホスホン酸),コバルト(II),2アムモニウム	69178-34-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Phosphonic acid, (1-hydroxyethylidene)bis-, cobalt(2+) potassium salt (1:1:2)	1-ヒト*ヒドロキシエチリデン*ビス(ホスホン酸),コバルト(II),2カリウム	69140-59-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Phosphonic acid, (1-hydroxyethylidene)bis-, cobalt(2+) sodium salt (1:1:2)	1-ヒト*ヒドロキシエチリデン*ビス(ホスホン酸),コバルト(II),2ナトリウム	69140-60-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Phosphoric acid, ammonium cobalt(2+) salt (1:1:1)	リン酸アモニウムコバルト(II)	14590-13-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●														
Phosphoric acid, cobalt(2+) salt (1:1)	リン酸水素コバルト(II)	13596-21-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Phosphoric acid, cobalt(2+) salt (2:1)	ビス(リン酸二水素)コバルト(II)	18718-10-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Phosphoric acid, cobalt(2+) salt (2:3), hydrate	リン酸コバルト(II)水和物	10101-56-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O"]cobaltate(1-)	[N,N-ビス(カルボキシル)グリシン酸(3-)-N,O,O',O"]コバルト(1-)ケタム	63640-17-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Propanoic acid, 2,2-dimethyl-, cobalt(2+) salt	2,2-ジメチルプロパン酸コバルト(II)	15520-31-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Selenic acid, cobalt(2+) salt (1:1)	セレン酸コバルト(II)	14590-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Sodium [2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)]bis[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	2-[[5-(アミノスルホン酸)-2-ヒドロキシフェニル)アゾ]-3-オキソ-N-フェニルブチルアミダト(2-)]ビス[[1-(ベンゾチアゾール-2-イル)2-オキソプロピル)アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]コバルト(1-)ケタム	83249-69-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Sodium bis[1-[[5-(ethylsulphonyl)-2-hydroxyphenyl]azo]-2-naphtholato(2-)]cobaltate(1-)	1-[[5-(エチルスルホン酸)-2-ヒドロキシフェニル)アゾ]-2-ナフtholato(2-)]コバルト(1-)ケタム	55870-94-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Sodium bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	3-[[1-(ベンゾチアゾール-2-イル)2-オキソプロピル)アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]コバルト(1-)ケタム	83249-71-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Sodium bis[3-[[4,5-dihydro-3-methyl-1-(4-nitrophenyl)-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulphonamidato(2)]cobaltate(1-)	3-[[4,5-ジヒドロ-3-メチル-1-(4-ニトロフェニル)-5-オキソ-1H-ピラゾール-4-イル)アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2)]コバルト(1-)ケタム	83803-65-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Sodium bis[4-[[4-chloro-1-hydroxy-2-naphthyl]azo]-N,N'-diethyl-5-hydroxybenzene-1,3-disulphonamidato(2-)]cobaltate(1-)	4-[[4-クロロ-1-ヒドロキシ-2-ナフthyl)アゾ]-N,N'-ジエチル-5-ヒドロキシベンゼン-1,3-ジスルホンアミダト(2-)]コバルト(1-)ケタム	24215-94-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Sodium bis[4-hydroxy-3-[[5-(hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]-N-methylbenzenesulphonamide S,S-dioxidato(2-)]cobaltate(1-)	4-ヒドロキシ-3-[[5-(ヒドロキソナフth[2,1-d]-1,3-オキサチオール-4-イル)アゾ]-N-メチルベンゼンスルホンアミダト(2-)]コバルト(1-)ケタム	83817-78-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															



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Sodium bis(methyl [8-[[5-(ethylsulphonyl)-2-hydroxyphenyl]azo]-7-hydroxy-2-naphthyl]methylcarbamato(2-))cobaltate(1-)	ナトリウムビス(メチル[8-[[5-(エチルスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-2-ナフチル]メチルカルバマート(2-))コバルタテ(1-)	55870-93-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Spinels, cobalt nickel zinc grey	尖晶石(コバルトニッケル亜鉛グレー)	95046-47-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●														
Sulfuric acid, ammonium cobalt(2+) salt	硫酸(コバルト(II)アンモニウム)	13586-38-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Sulfuric acid, ammonium cobalt(2+) salt (2:2:1)	硫酸,アンモニア,コバルト(II),(2:2:1)	13596-46-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●														
Sulfuric acid, cobalt salt, hydrate	硝酸コバルト塩水和物	65492-00-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Tetrakis[(decanoato-O)cobalt]tetra-.mu.-oxotitanium	テトラキス[(デカノアト-O)コバルト]テトラ-μ-オキソチタン	84145-31-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Tetrakis[(octanoato-O)cobalt]tetra-.mu.-oxotitanium	テトラキス[(オクタノアト-O)コバルト]テトラ-μ-オキソチタン	84176-59-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Thiocyanic acid, cobalt(2+) salt	チオシアニドコバルト(II)	3017-60-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Tri-.mu.-carbonyltetracarbonyl(pentacarbonyldicobalt)dirhodium	トリ-μ-カルボニルテトラカルボニル(五カルボニル二コバルト)二ロジウム	50696-78-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Tricobalt bis(orthophosphate)	リン酸コバルト(II)	13455-36-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Tricopper bis[hexa(cyano-c)cobaltate(3-)]	三[[六シアノ-C)コバルト(3-)]三銅	14518-26-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trihydrogen bis[5-[[[4-hydroxy-3-[[2-oxo-1-[[phenylamino]carbonyl]propyl]azo]phenyl]sulphonyl]amino]naphthalene-2-sulphonato(3-)]cobaltate(3-)]	トリヒドロゲンビス[[[4-ヒドロキシ-3-[[2-オキソ-1-[[フェニルアミノ]カルボニル]プロピル]アゾ]フェニル]スルホニル]アミノ]ナフthalene-2-スルホナト(3-)]コバルタテ(3-)]	72932-56-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Triphenyl(p,p,p-triphenylphosphine imidato-N)phosphorus(1+) tetracarbonylcobaltate(1-)	トリフェニル(p,p,p-トリフェニルホスフィンイミダト-N)リン酸(1+)テトラカルボニルコバルタテ(1-)	53433-12-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Tris(heptane-3,5-dionato-O,O')cobalt	トリ(3,5-ヘプタジオネオキシ)コバルト(III)	15188-91-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium [N,N-bis[2-[[bis(carboxymethyl)amino]ethyl]glycinato(5-)]cobaltate(3-)]	トリナトリウム[N,N-ビス[[2-[[ビス(カルボキシル)アミノ]エチル]グリシノート(5-)]コバルタテ(3-)]	6255-07-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium bis[3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-2-hydroxy-5-nitrobenzenesulphonato(3-)]cobaltate(3-)]	トリナトリウムビス[[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-2-ヒドロキシ-5-ニトロベンゼンスルホナト(3-)]コバルタテ(3-)]	84204-70-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium bis[3-[[[5-amino-3-methyl-1-phenyl-1H-pyrazol-4-yl]azo]-5-chloro-4-hydroxy-N-[2-((sulphoxy)ethyl)benzenesulphonamido(3-)]cobaltate(3-)]	トリナトリウムビス[[[5-アミノ-3-メチル-1-フェニル-1H-ピラゾール-4-イル]アゾ]-5-クロロ-4-ヒドロキシ-N-[2-((スルホキシ)エチル)ベンゼンスルホナミド(3-)]コバルタテ(3-)]	83804-04-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium bis[4-[[4,5-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]benzene-1-sulphonato(3-)]cobaltate(3-)]	トリナトリウムビス[[4-[[4,5-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼン-1-スルホナト(3-)]コバルタテ(3-)]	79135-28-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium bis[4-hydroxy-3-nitro-5-[[[2-oxo-1-[[phenylamino]carbonyl]propyl]azo]benzenesulphonato(3-)]cobaltate(3-)]	トリナトリウムビス[[4-ヒドロキシ-3-ニトロ-5-[[[2-オキソ-1-[[フェニルアミノ]カルボニル]プロピル]アゾ]ベンゼンスルホナト(3-)]コバルタテ(3-)]	83733-22-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Trisodium bis[5-chloro-2-hydroxy-3-[(2-hydroxy-1-naphthyl)azo]benzenesulphonato(3-)]cobaltate(3-)	ビス[5-クロロ-2-ヒドロキシ-3-[(2-ヒドロキシ-1-ナフチル)アゾ]ベンゼンスルホン酸(3-)]コバルト酸(3-) 三ナトリウム	6771-86-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium bis[6-amino-5-[(2-hydroxy-3,5-dinitrophenyl)azo]naphthalene-1-sulphonato(3-)]cobaltate(3-)	ビス[6-アミノ-5-[(2-ヒドロキシ-3,5-ジニトロフェニル)アゾ]ナフthalen-1-スルホン酸(3-)]コバルト酸(3-) 三ナトリウム	84057-73-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium bis[amino[(2-hydroxy-3,5-dinitrophenyl)azo]naphthalenesulphonato(3-)]cobaltate(3-)	ビス[アミノ[(2-ヒドロキシ-3,5-ジニトロフェニル)アゾ]ナフthalenesulphonato(3-)]コバルト酸(3-) 三ナトリウム	74220-71-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium hexanitritocobaltate	ヘキサニトロコバルト酸(III) 三ナトリウム	13600-98-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Xanthylum, 9-(2-carboxyphenyl)-3,6-bis(diethylamino)-, bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-N-[3-(1-methylethoxy)propyl]benzenesulfonamidato(2-)]cobaltate(1-)	9-(2-カルボキシルフェニル)-3,6-ビス(ジエチルアミノ)-, bis[3-[(4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル)アゾ]-4-ヒドロキシ-N-[3-(1-メチルエトキシ)プロピル]ベンゼンスルホンアミダト(2-)]コバルト酸(1-)	71566-55-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Acid Red 182	C.I.アゾットレド 182	61901-42-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
1-Propanamin, N,N-dipropyl-, cobalt complex	N,N-ジプロピルアミン-1-コバルト錯体	75101-45-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt borate neodecanoate complexes,	ネオデカノートコバルト酸錯体	68457-13-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Blue 28	酸化第一コバルト酸化アルミニウム(1:x)	1345-16-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Cobalt aluminate blue spinel	コバルトアルミニウム酸化物スピネル	68186-86-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Acid Blue	C.I.アゾットブルー	51053-44-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Blue 36	C.I.ピグメントブルー-36	68187-11-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Blue 74 (Cobalt Zinc Silicate Blue Phenacite)		68412-74-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Green 26	C.I.ピグメントグリーン26	68187-49-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Violet 47	C.I.ピグメントバイオレット47	68610-13-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Green 50	C.I.ピグメントグリーン50	68186-85-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●	●														
C.I. Pigment Blue 72	C.I.ピグメントブルー72	68186-87-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Green 19	C.I.ピグメントグリーン19	8011-87-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
C.I. Pigment Black 27	C.I.ピグメントブラック27	68186-97-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cobalt(II) isoalkanoates(C6-C19)	C6-19分枝脂肪酸のAl <sup>3+</sup> 卍塩	68409-81-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
(C9-C13) Neoalkanoic acids, cobalt(2+) salts	C9-13分枝脂肪酸のAl <sup>3+</sup> 卍塩	68955-83-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Trisodium bis(2-hydroxy-5-nitro-3-((2-oxo-1-((phenylamino)carbonyl)propyl)azo)benzenesulphonato(3-))cobaltate(3-)	トリス(2-ヒドロキシ-5-ニトロ-3-((2-オキソ-1-((フェニルアミノ)カルボニル)プロピル)アゾ)ベンゼンスルホン酸(3-))コバルト(3-)三ナトリウム	85959-73-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Zinc chrome cobalt aluminate blue spinel		74665-01-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	●	●															
Colophony (Rosin), selected	コロフォニー (ロジン)、抜粋					●																
Rosin	ロジン	8050-09-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Colophony resin	コロフォニー	148499-15-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Resin acids and Rosin acids zinc salts	ロジン酸・ロジン酸亜鉛の塩	91081-53-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Copper (metallic)	銅(金属)	7440-50-8	Observation	All applications and products	5 % copper and its compounds by weight (January 1, 2021) 0.5 % copper and its compounds by weight (January 1, 2025)	●																
Critical Raw Materials		See list of substances reported in IMDS: <a href="https://public.mdsystem.com/web/imds-public-pages/gadsl-crm">https://public.mdsystem.com/web/imds-public-pages/gadsl-crm</a>	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Cumene	クマ	98-82-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	
Cyclododecane, hexabromo- (HBCD)	シクロドデカン、ヘキサブロム (HBCD)					●																
Cyclododecane, hexabromo- (HBCD)		25637-99-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●	●	●		●		●					●		●			
1,2,5,6,9,10-Hexabromocyclododecane		3194-55-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●	●	●		●		●					●		●			
rel-(1R, 2S, 5R, 6S, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane		4736-49-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
rel-(1R, 2S, 5R, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane		65701-47-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
rel-(1R, 2R, 5S, 6R, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	α-ヘキサブロムシクロドデカン	134237-50-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●	●	●		●		●						●		●		
rel-(1R, 2S, 5R, 6R, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	β-ヘキサブロムシクロドデカン	134237-51-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●	●	●		●		●						●		●		
rel-(1R, 2R, 5R, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane	γ-ヘキサブロムシクロドデカン	134237-52-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●	●	●		●		●						●		●		
(1R, 2R, 5R, 6S, 9S, 10S)-1,2,5,6,9,10-Hexabromocyclododecane		138257-17-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
(1R, 2R, 5R, 6S, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane		138257-18-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
(1R, 2S, 5S, 6R, 9S, 10S)-1,2,5,6,9,10-Hexabromocyclododecane		138257-19-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
(1R, 2S, 5S, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane		169102-57-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
(1R, 2R, 5S, 6R, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane		678970-15-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
(1R, 2S, 5R, 6S, 9S, 10S)-1,2,5,6,9,10-Hexabromocyclododecane		678970-16-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
(1R, 2R, 5R, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane		678970-17-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 100	●		●				●								●		
Cyclohexane-1,2-dicarboxylic anhydride		85-42-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●														
D&C Orange No. 17		3468-63-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Decamethylcyclopentasiloxane		541-02-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●	●													
Diamino-diphenylmethane (4,4'-Diaminodiphenylmethane)	ジアニミノ-ジフェニルメタン (4,4'-ジアミノジフェニルメタン)	101-77-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●										●		●	
Diazene-1,2-dicarboxamide, Azodicarbonamide (ADCA)	ジアジエン-1,2-ジカルボキシアミド	123-77-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●														
1,3-dihydro-4(or 5)-methyl-2H- benzimidazole-2-thione		53988-10-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
1,3-dihydro-4(or 5)-methyl-2H- benzimidazole-2-thione, zinc salt		61617-00-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2,4-Dihydroxybenzophenone		131-56-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Diisodecyl azelate		28472-97-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Dimethylformamide (N,N- Dimethylformamide)	N,N-ジメチルホルムアミド	68-12-2	Prohibited/Obser- vation	To be prohibited: Textile products other than clothing that come into contact with human skin To be controlled: Applications other than those prohibited	To be prohibited: Textile products other than clothing that come into contact with human skin. 50 To be controlled: Relative to the weight of component parts and materials 1000	●	●	●	●										●		●	
N,N-Dimethylacetamide	N,N-ジメチルアセチルアミド	127-19-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●														●
2,4 Dinitrotoluene	2,4-ジニトロトルエン	121-14-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●	●										●		●	
Diorganotin compounds	ジ有機スズ化合物					●																
Dibutyltin compounds, all members	ジブチルスズ化合物、全て					●																
2,2'- ((Dibutylstannylene)bis(thio))diethanol		3026-81-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
3,8,10-Trioxa-9-stannatetradeca-5,12- dien-14-oic acid, 9,9-dibutyl-2-methyl- 4,7,11-trioxo-, 1-methylethyl ester, (Z,Z)-	3,8,10-トリオキサ-9-スタノテトラデカ-5,12-ジエン-14- 酸,9,9-ジブチル-2-メチル-4,7,11-トリオキサ-,1-メチルエチ ル, (Z,Z)-	22535-42-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
3,8,10-Trioxa-9-stannatetradeca-5,12- dien-14-oic acid, 9,9-dibutyl-4,7,11-trioxo- , ethyl ester, (Z,Z)-	3,8,10-トリオキサ-9-スタノテトラデカ-5,12-ジエン-14- 酸,9,9-ジブチル-4,7,11-トリオキサ-,エチルエステル, (Z,Z)-	13173-04-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
5,7,12-Trioxa-6-stannatetracos-2,9- dienoic acid, 6,6-dibutyl-4,8,11-trioxo- , dodecyl ester, (Z,Z)-	5,7,12-トリオキサ-6-スタノテトラコサ-2,9-ジエン酸,6,6- ジブチル-4,8,11-トリオキサ-,ドデシルエステル, (Z,Z)-	33466-31-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Acetate, S,S'-bis(octylmercapto)-, dibutyltin	S,S'-ビス(オクチルメルカプト)-ジブチルスズ酢酸エステル	32011-18-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Bis (acetato) dibutyltin	ビスマスジブチルジ酢酸エステル	17523-06-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyl tin	ジブチルジブチル	1002-53-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltinbis(2-ethylhexyl mercaptoacetate)		10584-98-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutylbis(octyl maleate)tin		17036-31-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Diisooctyl 4,4'- ((dibutylstannylene)bis(oxy))bis(4- oxoisocrotonate)		25168-21-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutylbis((1-oxoneodecyl)oxy)stannane		25168-22-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutylbis(myristoyloxy)stannane		28660-67-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutylthioxostannane		4253-22-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutylbis[(1- oxoisooctadecyl)oxy]stannane		59963-28-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane		93925-42-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutylbis(ethyl 3-oxobutyrato-O1',O3)tin	ジブチルジブチル(1,3-ジブチルオキシブチレート-O1',O3)スズ	54581-65-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin bis(2-ethylhexyl-3- mercaptopropionate)	3,3'-bis(2-エチルヘキシルチオプロピオン酸)ジブチル	53202-61-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin bis(benzyl maleate)	8,8'-ジブチル-3,6,10-トリオクチル-1,7,9-トリオクチル-8-スチレン-4,2,11Z-ジエチル-13-酸 ジブチルジブチル	7324-74-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin bis(cyclohexyl maleate)	(Z,Z)-ジブチル-[[4-(シクロヘキシルチオ)-1,4-ジブチル-2-ブチレンチオ]ジブチル]	5587-52-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin bis(lauryl β-mercaptopropionate)	3,3'-bis(ラウリルチオプロピオン酸)ジブチル	51287-83-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin bis(octylthioglycolate)	2,2'-bis(2-エチルヘキシルチオ)ジブチルジブチル	2781-09-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin bis(oleyl maleate)	(all-Z)-4,4'-bis(オレイルチオ)ジブチル	29881-72-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin di(isooctyl 3- mercaptopropionate)	3,3'-bis(イソオクチルチオプロピオン酸)ジブチル	26761-46-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin diacetate	ジブチルジブチルジ酢酸エステル	1067-33-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin dibenzoate	ビス(ベンゾイル)ジブチルジブチル	5847-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin dibutoxide	ジブチルジブチルジブチル	3349-36-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin dichloride	ジブチルジブチルジクロライド (IV)	683-18-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●	●	●											●				
Dibutyltin dihexanoate	ジブチルジブチルジヘキサノ酸	19704-60-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dibutyltin dilaurate	ジブチルジブチルジラウレート	77-58-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●													●				
Dibutyltin dilaurate mercaptide	ジブチルジブチルジラウレートチオ	1185-81-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Dibutyltin dimaleate	(Z,Z)-4,4'-[[ジブチルチンジカルボキシ]ジエチレン]ジメチルマレイン酸	10192-92-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin dimethoxystannane		1067-55-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin dioctanoate	ジブチルチンジ[1-(1-オクチルオキシ)エチル]ジエタノール	4731-77-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin dioleate	ジブチルチンジ(1-オレイルオキシ)エタノール	13323-62-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin dipalmitate	ジブチルチンジ[1-(1-パルミチン酸)エチル]ジエタノール	13323-63-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin disalicylate	ジブチルチンジ(2-ヒドロキシベンゾイル)エチルジエタノール	14214-24-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin distearate	ジブチルチンジステアリン酸ジエタノール	5847-55-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin hydrogen borate	ジブチルチン水酸化ホウ素	75113-37-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●		●											●			
Dibutyltin isooctanoate	ジブチルチンジ[1-(1-イソオクチルオキシ)エチル]ジエタノール	85702-74-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin linoleate	ジブチルチンリノール酸塩	85391-79-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin linolenate	ジブチルチンリノール酸トリステル	95873-60-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin maleate	2,2'-ジブチルチン-1,3,2'-ジブチルチンジマレイン酸	78-04-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin mercaptoacetate	2,2'-ジブチルチン-1,3,2'-ジブチルチンジメルカプトアセテート	78-20-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin mercaptopropionate	2,2'-ジブチルチン-1,3,2'-ジブチルチンジメルカプトプロピオン酸	78-06-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin oxide	ジブチルチン酸ジブチル	818-08-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●	●															
Dibutyltin S,S'-bis(isooctyl mercaptoacetate)Acetic acid, 2,2'-[(dibutylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester)	ジブチルチンジ[1-(1-イソオクチルオキシ)エチル]ジメルカプトアセテート	25168-24-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin di(2-ethylhexyl maleate)	ジブチルチンジ(2-エチルヘキシル マレイン酸)	15546-12-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin bis(C8 to C18 unsatd. fatty acyloxy) derivs.		85508-00-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Diisobutyltin oxide	ジイソブチルチン酸ジイソブチル	61947-30-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Di-n-butyltin bis(methyl maleate)	Di-n-ブチルチンジメチルマレイン酸	15546-11-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Dibutyltin diisothiocyanate		15719-34-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Di-n-butyltin di(monobutyl)maleate	Di-n-ブチルチンジ(モノブチル)マレイン酸	15546-16-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Di-n-butyltin di-2-ethylhexanoate	ジブチルチンジ(2-エチルヘキシル)ジエタノール	2781-10-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Distannathiane, 1,3-dibutyl-,1,3-dithio-		15666-29-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Tin, dibutyl(1,2-ethanediamine-N,N')bis(monoisooctyl 2-butenedioato-O)-	ジブチルチン(1,2-エタナジアミン-N,N')ビス(イソオクチル 2-ブテンジカルボキシ)ジエタノール	163206-28-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Tin, dibutyl[N-(carboxymethyl)-N-(2-hydroxyethyl)glycinato(2-)]-	ジブチル[N-(カルボキシル基)-N-(2-ヒドロキシエチル)グリシノ酸(2-)]	68239-46-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-	ジブチルビス(2,4-ペンタジオン酸) (IV)	22673-19-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●	●	●											●			
Tin, dibutylbis(methyl 3-mercaptopropanoato-O,S)-	ジブチルビス(3-メルカプトプロパノ酸メチル)	32011-19-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Tin, dibutylbis(N,N-diethylethanamine)difluoro-	ジブチルビス(N,N-ジエチルエタナミン)ジフルオロ	67924-24-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials Tin concentration 1000	●																
Diocetyl tin compounds, all members	ジオクチルスズ化合物、全て					●																
Acetic acid,2,2'-[[diocetylstannylene]bis(thio)]bis-, 1,1'-diisooctyl ester	ジブチルビス(2,2'-[[ジオクチルスズ]ビス(チオ)]ビス-, 1,1'-ジイソオクチルエステル)	26401-97-8	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																
Bis(dodecylthio)diocetyl stannane		22205-30-7	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																
2-Butenedioic acid, 1,1'-((diocetylstannylene) 4,4'-diethyl ester		68109-88-6	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																
Di-n-octyltin bis(2-ethylhexyl maleate)		10039-33-5	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																
Diocetylbis(pentane-2,4-dionato-O,O')tin		54068-28-9	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																
Diocetylbis(stearoyloxy)stannane		22205-26-1	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-ethylhexyl 10-ethyl-4,4-diethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)		15571-58-1	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●	●	●	●										●			
Diocetyl tin bis(isooctyl maleate)	ビス(イソオクチルマレイク酸)ジスチン	33568-99-9	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																
Diocetyl tin dichloride	ジクロライドジスチン	3542-36-7	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●														●		
Diocetyl tin dilaurate		3648-18-8	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●	●	●												●		
Diocetyl tin maleate	ジスチン-n-オクチルマレイク酸エステル	16091-18-2	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																
Diocetyl tin oxide, (Stannane, dioctyl oxo- )	ジスチン-n-オクチルマレイク酸ジスチンオキサイド	870-08-6	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●	●															
Diocetyl tin dodecanoate		68299-15-0	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)diocylstannane		93925-43-0	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Stannane, dioctyl-, bis(coco acyloxy) derivs.		91648-39-4	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●	●	●											●				
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety		-	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000		●																
Reaction mass of DOTE/MOTE	DOTEとMOTEの反応生成物	-	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●	●																
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)		15571-58-1	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●	●	●		●										●			
2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (MOTE)		27107-89-7	Prohibited/Reduced	To be prohibited: adhesives and 2-component room temperature curing casting products of all applications and products that are in contact with the human body continuously for a long period of time To be reduced: adhesives and 2-component room temperature curing casting products of all applications and products, and adhesives and 2-component room temperature curing casting products of all applications and products that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Other Diorganotin compounds	その他のジ有機スズ化合物					●	●																
2-Ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate		57583-35-4	Reduced	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dimethoxybis(pentane-2,4-dionato-O,O')tin	二メチルジ(ペンタン-2,4-ジオキソト-オ,オ')スズ	66779-19-9	Reduced	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	●																	
Dimethyltin dichloride		753-73-1	Reduced	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	●																	
1,4-Dioxane		123-91-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●												●		●	
Disodium octaborate, anhydrous		12008-41-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●												●			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Disodium octaborate tetrahydrate; Boron sodium oxide (B8Na2O13), tetrahydrate	八硼素二ナトリウム・四水和物	12280-03-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●				
Disodiumtetraborates, selected	四ホウ酸二ナトリウム、抜粋					●																	
Disodium Tetraborate, anhydrous	四ホウ酸ナトリウム(無水物)	1330-43-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●												●			
Disodium Tetraborate, pentahydrate	四ホウ酸ナトリウム5水和物	12179-04-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●												●			
Disodium Tetraborate, decahydrate	四ホウ酸ナトリウム10水和物(粉砂)	1303-96-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●												●			
Tetraboron Disodium heptaoxide, hydrate	四ホウ酸二ナトリウム水和物	12267-73-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●												●			
2,6-di-tert-butyl-p-cresol		128-37-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol		96-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
2,5-di-tert-pentylhydroquinone		79-74-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
2,2'-Dithiobis(benzothiazole)		120-78-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Diundecyl phthalate, branched and linear		85507-79-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Dodecachloropentacyclo 1, 3, 4-Metheno-1H-cyclobuta(cd)pentalene, Mirex	ドデカクロペンタシクロ[5.3.0.0(2,6).0(3,9).0(4,8)]ペンタレン、ミレックス	2385-85-5	Prohibited	All applications and products	Intentional addition	●						●						●		●	●		
1,6,7,8,9,14,15,16,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene, all members						●																	
1,6,7,8,9,14,15,16,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene		13560-89-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●															
1,6,7,8,9,14,15,16,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene		135821-74-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
1,6,7,8,9,14,15,16,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene		135821-03-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●															
Dodecamethylcyclohexasiloxane (D6)		540-97-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●						●									
Epichlorohydrin (1-chloro-2,3-epoxypropane)	エピクロヒドリン	106-89-8	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●													●		●		
1,1'-(ethane-1,2-diy)bis[pentabromobenzene]		84852-53-9	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900	●	●																
Ethane-1,2-diol		107-21-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Ethanol, 2-(2-methoxyethoxy)-	2-(2-メトキシエトキシ)エタノール(DEGME)	111-77-3	Reduced	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●			●														
Ethyl- / Methyl-glycols and their acetates	エチル・メチルグリコールおよびそのアセテート類					●																	
2-Methoxyethanol	2-メトキシエタノール	109-86-4	Prohibited	Prohibited as impurity in Diethylene glycol methyl ether and in hard parts	Prohibited ≥ 0.5% w/w in Diethylene glycol methyl ether. Any intentionally added content in hard parts	●		●											●	●	●		
Propanol, 2-methoxy-	2-メトキシプロパノール	1589-47-5	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●													●				
EGDME		110-71-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●												●			
2-Ethoxyethanol	2-エトキシエタノール、セピソール	110-80-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●												●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA			
2-Methoxyethyl acetate	エチルメチルアセテート	110-49-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●													●	●			
Ethylbenzene		100-41-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	●		
N,N'-ethylenebis(3,4,5,6-tetrabromophthalimide)		32588-76-4	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900	●	●																	●	
Ethylenediamine	エチレンジアミン	107-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●																	
Ethylene Glycol Monoethyl Ether Acetate		111-15-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●																●	●
Ethylenethiourea/Imidazolidine-2-thione	2-イミダゾリジンチオン	96-45-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●																●	●
Formaldehyde	ホルムアルデヒド	50-00-0	Prohibited/Reduced	To be prohibited: Applications and products for in-vehicle facilities To be reduced: All applications and products except those for in-vehicle facilities	Intentional addition Relative to the weight of component parts and materials 1000 Relative to the weight of textile products 75	●	●																●	●	
Glutaral; Glutaraldehyde; Pentane-1,5-dial; Pentanedial	グルタルアルデヒド	111-30-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●																	
Hexachlorobenzene	ヘキサクロロベンゼン	118-74-1	Prohibited	All applications and products	Concentration in homogeneous materials 10 Based on the handling of content containing side-product hexachlorobenzene (announcement) following the revision of the "Application of Chemical Substances Control Law", October 15, 2007, Ministry of Economy, Trade and Industry	●						●						●	●	●		●	●		
Hexachloro-1,3-butadiene (HCBD)	ヘキサクロロ-1,3-ブタジエン (HCBD)	87-68-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	●						●						●		●		●	●	●	
Hexachlorocyclohexane, gamma isomer, Lindane	ヘキサクロロシクロヘキサン	58-89-9	Prohibited	All applications and products	Intentional addition	●						●						●							
Hexahydromethylphthalic-anhydride		25550-51-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●																	
Hexahydro-1-methylphthalic anhydride		48122-14-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●																	
Hexahydro-3-methylphthalic anhydride		57110-29-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●																	
Hexamethyldisiloxane		107-46-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																			
2-Hexyldecan-1-ol		2425-77-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																			
Hydrazine	ヒドラジン	302-01-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●																●	●
Hydrobromofluorocarbons (HBFC's), all members	ハイドロフロロメチルオロカーボン (HBFC) 、全て					●																			
1,2-Dibromo-1,1-difluoroethane	1,2-ジブロモ-1,1-ジフルオロエタン	75-82-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																		
Dibromofluoromethane	ジブロモフルオロメタン	1868-53-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																		
C2H2F2Br2: 1,1-Dibromo-2,2-difluoroethane (Ethane, 1,1-Dibromo-2,2-difluoro-)	ジブロモジフルオロエタン	359-19-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																			
Bromodifluoromethane	ブロモジフルオロメタン	1511-62-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																		
1-Bromo-2-fluoroethane	ブロモフルオロエタン	762-49-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																		
1-Bromo-3-fluoropropane (Propane, 1-Bromo-3-fluoro-)	ブロモフルオロプロパン	352-91-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																			
3-Bromo-1,1,1-trifluoropropane (Propane, 3-Bromo-1,1,1-trifluoro-)	ブロモトリフルオロプロパン	460-32-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,2-Dibromo-1-fluoroethane	ジブロムフルオロエタン	358-97-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,3-Dibromo-1,1-difluoropropane	ジブロムジフルオロプロパン	460-25-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,2-Dibromo-1,1,1-trifluoroethane	ジブロムトリフルオロエタン	354-04-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
2,3-Dibromo-1,1,1-trifluoropropane	ジブロムトリフルオロプロパン	431-21-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1,2-tetrabromo-2-fluoro-ethane	テトラブロムフルオロエタン	353-93-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,1,2,2-tetrabromo-1-fluoro-ethane	テトラブロムフルオロエタン	306-80-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1-tribromo-2,2-difluoroethane	トリブロムジフルオロエタン	7304-53-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,2,2-tribromo-1,1-difluoroethane	トリブロムジフルオロエタン	677-34-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,1,2-tribromo-1,2-difluoroethane	トリブロムジフルオロエタン	353-97-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,1,2-tribromo-1-fluoroethane	トリブロムフルオロエタン	420-88-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,1,2-tribromo-2-fluoroethane	トリブロムフルオロエタン	598-67-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
C2H3F2Br: Bromo-1,1-difluoroethane (Ethane, 2-bromo-1,1-difluoro- )	ジブロムジフルオロエタン	359-07-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
C3HFBr6		none	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
C3HF2Br5		none	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
C3HF3Br4		none	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
C3HF4Br3	トリブロムジフルオロプロパン (HBFC-224 B3)	666-48-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
C3H2FBr5		none	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
C3H2F2Br4	テトラブロムジフルオロプロパン (HBFC-232 B4)	148875-98-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,2,2-Tribromo-3,3,3-trifluoropropane	トリブロムトリフルオロプロパン (HBFC-233 B3)	421-90-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,3-Dibromo-1,1,1,3,3-tetrafluoropropane	ジブロムテトラフルオロプロパン (HBFC-234 B2)	460-86-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1-bromo-1,1,2,2,2-pentafluoro-propane	ブロムペンタフルオロプロパン	422-01-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
2-bromo-1,1,1,2,2,3-pentafluoro-propane	ブロムペンタフルオロプロパン	677-52-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1-bromo-1,1,2,2,3-pentafluoro-propane	ブロムペンタフルオロプロパン	677-53-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																

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2-bromo-1,1,1,3,3-pentafluoro-propane	2-ブロモ1,1,1,3,3-ペナフルオロプロパン	22692-16-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1-bromo-1,1,3,3,3-pentafluoro-propane	1-ブロモ1,1,3,3,3-ペナフルオロプロパン	460-88-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1-bromo-1,2,2,3,3-pentafluoro-propane	1-ブロモ1,2,2,3,3-ペナフルオロプロパン	679-94-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
2-bromo-1,1,2,3,3-pentafluoro-propane	2-ブロモ1,1,2,3,3-ペナフルオロプロパン	26391-11-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Propane, 3-bromo-1,1,1,2,3-pentafluoro-, (R*,S*)- (9CI)	3-ブロモ1,1,1,2,3-ペナフルオロプロパン (R*,S*)	53692-43-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Propane, 3-bromo-1,1,1,2,3-pentafluoro-, (R*,R*)- (9CI)	3-ブロモ1,1,1,2,3-ペナフルオロプロパン (R*,R*)	53692-44-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
C3H3FBr4	ヘキサフルオロエチレン (HBFC-241 B4)	148875-95-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,2,3-Tribromo-3,3-difluoropropane	1,2,3-トリブロモ3,3-ジフルオロプロパン	666-25-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
2-bromo-1,1,3,3-tetrafluoro-propane	2-ブロモ1,1,3,3-テトラフルオロプロパン	19041-01-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
2-bromo-1,3,3,3-tetrafluoropropane	2-ブロモ1,3,3,3-テトラフルオロプロパン	29151-25-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
3-Bromo-1,1,2,2-tetrafluoropropane	3-ブロモ1,1,2,2-テトラフルオロプロパン	679-84-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1-bromo-1,1,2,2-tetrafluoropropane	1-ブロモ1,1,2,2-テトラフルオロプロパン	70192-84-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1-bromo-1,2,2,3-tetrafluoro-propane	1-ブロモ1,2,2,3-テトラフルオロプロパン	70192-71-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
3-bromo-1,1,1,3-tetrafluoropropane	3-ブロモ1,1,1,3-テトラフルオロプロパン	460-67-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
C3H4FBr3	トリフルオロエチレン	75372-14-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Dibromo-3-fluoropropane	1,2-ジブロモ3-フルオロプロパン	453-00-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,3-Dibromo-2-fluoropropane	1,3-ジブロモ2-フルオロプロパン	1786-38-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,3-Dibromo-1-fluoropropane	1,3-ジブロモ1-フルオロプロパン	51584-26-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Dibromo-1-fluoro-(R*,S*)-propane	1,2-ジブロモ1-フルオロ(R*,S*)-プロパン	62135-10-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,2-Dibromo-1-fluoro-(R*,R*)-propane	1,2-ジブロモ1-フルオロ(R*,R*)-プロパン	62135-11-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
2-bromo-1,1-difluoro-propane	2-ブロモ1,1-ジフルオロプロパン	430-87-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1-bromo-1,1-difluoro-propane	1-ブロモ1,1-ジフルオロプロパン	420-89-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1-bromo-2,2-difluoro-propane	1-ブロモ2,2-ジフルオロプロパン	420-98-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2-bromo-1,3-difluoro-propane	2-ブロモ1,3-ジフルオロプロパン	2195-05-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
3-bromo-1,1-difluoro-propane	3-ブロモ1,1-ジフルオロプロパン	461-49-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1-bromo-2,3-difluoro-propane	1-ブロモ2,3-ジフルオロプロパン	111483-20-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1-Bromo-1,1-difluoroethane	1-ブロモ1,1-ジフルオロエタン	420-47-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1-Bromo-1,1,2,3,3,3-hexafluoropropane	1-ブロモ1,1,2,3,3,3-ヘキサフルオロプロパン	2252-78-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
2-Bromo-1,1,1-trifluoroethane	2-ブロモ1,1,1-トリフルオロエタン	421-06-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Ethene, 2-bromo-1,1-difluoro-	2-ブロモ1,1-ジフルオロエチレン	359-08-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Propane, 1-bromo-2-fluoro-	1-ブロモ2-フルオロプロパン	1871-72-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Tribromodifluoroethane (HBFC-122 B3)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Tribromofluoroethane (HBFC-131 B3)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Hexabromofluoropropane (HBFC-221 B6)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Pentabromodifluoropropane (HBFC-222 B5)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Tetrabromotrifluoropropane (HBFC-223 B4)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Tribromotetrafluoropropane (HBFC-224 B3)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Pentabromofluoropropane (HBFC-231 B5)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Tetrabromodifluoropropane (HBFC-232 B4)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Tribromotrifluoropropane (HBFC-233 B3)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Dibromotetrafluoropropane (HBFC-234 B2)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Tetrabromofluoropropane (HBFC-241 B4)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Bromodifluoropropane (HBFC-262 B1)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Hydrochlorofluorocarbons (HCFC's), all members	ハイドロクロロフルオロカーボン (HCFC) 、全て					●																	
1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	1,1-ジクロロ1,2,2-トリフルオロエタン	812-04-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2,2-Trichloro-1,1-difluoroethane	1,2,2-トリクロロ1,1-ジフルオロエタン	354-21-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)		354-23-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,2-Dichloro-1,1-difluoroethane	1,2-ジクロロ-1,1-ジフルオロエタン	1649-08-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,2-Dichloro-1,2-difluoroethane	1,2-ジクロロ-1,2-ジフルオロエタン	431-06-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
2-chloro-1,3-difluoropropane	クロロジフルオロプロパン(HCFC-262)	102738-79-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	ジクロロヘキサフルオロプロパン	111512-56-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Tetrachlorodifluoropropane	テトラクロロジフルオロプロパン(HCFC-232)	127564-82-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Trichlorodifluoropropane	トリクロロジフルオロプロパン(HCFC-242)	127564-90-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Trichlorotetrafluoropropane	トリクロロテトラフルオロプロパン	127564-91-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
2,2-Dichloro-1,1,1,3,3,3-pentafluoropropane	ジクロロヘキサフルオロプロパン	128903-21-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Chlorotrifluoroethane	クロロトリフルオロエタン	1330-45-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Tetrachlorofluoropropane	テトラクロロフルオロプロパン(別名:HCFC-241)	134190-49-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Trichlorofluoropropane	トリクロロフルオロプロパン(別名:HCFC-251)	134190-51-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Hexachlorofluoropropane	ヘキサクロロフルオロプロパン(別名:HCFC-221)	134237-35-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Pentachlorodifluoropropane	ペンタクロロジフルオロプロパン	134237-36-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Tetrachlorotrifluoropropane	テトラクロロトリフルオロプロパン(別名:HCFC-223)	134237-37-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Trichlorotetrafluoropropane	トリクロロテトラフルオロプロパン	134237-38-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Tetrachlorodifluoropropane	テトラクロロジフルオロプロパン(HCFC-232)	134237-39-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Trichlorotrifluoropropane	トリクロロトリフルオロプロパン(別名:HCFC-233)	134237-40-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Chloropentafluoropropane	クロロペンタフルオロプロパン(別名:HCFC-235)	134237-41-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Trichlorodifluoropropane	トリクロロジフルオロプロパン(HCFC-242)	134237-42-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorotrifluoropropane	ジクロロトリフルオロプロパン(別名:HCFC-243)	134237-43-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Chlorotrifluoropropane	クロロトリフルオロプロパン(別名:HCFC-253)	134237-44-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorofluoropropane	ジクロロフルオロプロパン(別名:HCFC-261)	134237-45-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	ジクロロヘキサフルオロエタン(別名:HCFC-225)	13474-88-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	ジクロロヘキサフルオロエタン(別名:HCFC-225)	136013-79-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1-Dichloro-1,2-difluoroethane	ジクロロジフルオロエタン	1842-05-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Dichlorodifluoroethane	ジクロロジフルオロエタン(HCFC-141)	25167-88-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Dichlorodifluoroethane	ジクロロジフルオロエタン(HCFC-132)	25915-78-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Hexachlorofluoropropane	ヘキサフルオロプロパン(別名:HCFC-221)	29470-94-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Tetrachlorotrifluoropropane	テトラクロロトリフルオロプロパン(別名:HCFC-223)	29470-95-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
2,3-Dichloro-1,1,1-trifluoropropane		338-75-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Trichlorodifluoroethane	トリクロロジフルオロエタン(HCFC-122)	41834-16-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
2-chloro-2-fluoropropane	クロロフルオロプロパン(別名:HCFC-271)	420-44-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Dichloro-1,1,2,3,3-pentafluoropropane	ジクロロヘキサフルオロエタン(別名:HCFC-225)	422-44-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	ジクロロヘキサフルオロエタン(別名:HCFC-225)	127564-92-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	ジクロロヘキサフルオロエタン(別名:HCFC-225)	422-48-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1-Dichloro-2,2,3,3,3-pentafluoropropane	ジクロロヘキサフルオロエタン(別名:HCFC-225)	422-56-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	ジクロロヘキサフルオロエタン(別名:HCFC-225)	431-86-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
3-Chloro-1,1,1-trifluoropropane	3-クロロ-1,1,1-トリフルオロプロパン	460-35-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
3,3-Dichloro-1,1,1-trifluoropropane	3,3-ジクロロ-1,1,1-トリフルオロプロパン	460-69-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1-chloro-1,1,3,3,3-pentafluoropropane	1-クロロ-1,1,3,3,3-ヘキサフルオロプロパン	460-92-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	1,3-ジクロロ-1,1,2,2,3-ヘキサフルオロプロパン(HCFC-225cb)	507-55-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Trichlorotrifluoropropane	トリクロロトリフルオロプロパン(別名:HCFC-233)	61623-04-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
3-Chloro-1,1,2,2-tetrafluoropropane	クロロテトラフルオロプロパン(別名:HCFC-244)	679-85-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1,1-Trichloro-3,3,3-trifluoropropane		7125-83-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1-Dichloro-1,2,2-trifluoropropane	ジクロロトリフルオロプロパン(別名:HCFC-243)	7125-99-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																



5. List of NSK Environmentally Harmful Substances (details)

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1,1-Dichloro-1-fluoropropane	ジクロロフルオロプロパン(HCFC-261)	7799-56-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,3-trichloro-1-fluoropropane	トリクロロフルオロプロパン(HCFC-251)	818-99-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorodifluoropropane	ジクロロジフルオロプロパン(別名:HCFC-252)	134190-52-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorofluoropropane		127404-11-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Dichlorotetrafluoropropane	ジクロロテトラフルオロプロパン(別名:HCFC-234)	127564-83-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorotrifluoropropane	ジクロロトリフルオロプロパン(別名:HCFC-243)	116890-51-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,2-Dichloro-1-fluoroethane	ジクロロフルオロエタン(HCFC-141)	430-57-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,2-Dichloro-1-fluoroethylene	ジクロロフルオロエチレン(HCFC-141)	430-58-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	クロロジフルオロエタン(HCFC-124)	354-25-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1-Chloro-1,1-difluoroethane	1-クロロ-1,1-ジフルオロエタン(HCFC-142b)	75-68-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1-Chloro-1,2-difluoroethylene	クロロジフルオロエチレン(HCFC-142)	359-04-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1-Chloro-1-fluoroethylene	1-クロロ-1-フルオロエチレン	2317-91-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1-Chloro-2-fluoroethylene	1-クロロ-2-フルオロエチレン	460-16-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
2-Chloro-1,1-difluoroethylene	2-クロロ-1,1-ジフルオロエチレン	359-10-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Chlorodifluoroethanes	クロロジフルオロエタン(HCFC-142)	25497-29-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Chlorodifluoromethane	クロロジフルオロメタン	75-45-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Chlorofluoromethane	クロロフルオロメタン	593-70-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Chlorotetrafluoroethane	クロロテトラフルオロエタン(HCFC-124)	63938-10-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorofluoromethane	ジクロロフルオロメタン(別名HCFC-21)	75-43-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorotrifluoroethane	ジクロロトリフルオロエタン(HCFC-123)	34077-87-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, 1,1,1-trichloro-2-fluoro-	1,1,1-トリクロロ-2-フルオロエタン	2366-36-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, 1,1,2-trichloro-1-fluoro-	トリクロロフルオロエタン(HCFC-131)	811-95-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, 1,1,2-trichloro-2-fluoro-	1,1,2-トリクロロ-2-フルオロエタン	359-28-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

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Ethane, 1,1-dichloro-1-fluoro-	1,1-ジクロロ-1-フルオロエタン(HCFC-141b)	1717-00-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, 1,2-difluoro-1,1,2-trichloro-	1,1,2-トリクロロ-1,2-ジフルオロエタン	354-15-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, 1-chloro-1,2-difluoro-	クロロジフルオロエタン(HCFC-142)	338-64-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, 2,2-dichloro-1,1,1-trifluoro-	2,2-ジクロロ-1,1,1-トリフルオロエタン(HCFC-123)	306-83-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, 2-chloro-1,1,1,2-tetrafluoro-	2-クロロ-1,1,1,2-テトラフルオロエタン(別名HCFC-124)	2837-89-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Ethane, chloro-1,1-difluoro-	クロロ-1,1-ジフルオロエタン	55949-44-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Ethane, monochlorodifluoro-	モノクロロジフルオロエタン	338-65-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Trichlorofluoroethane	トリクロロフルオロエタン	27154-33-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
chlorodifluoropropane	クロロジフルオロプロパン	134190-53-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
chlorofluoroethane	クロロフルオロエタン(HCFC-151)	110587-14-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
chlorofluoropropane		134190-54-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
chlorohexafluoropropane	クロロヘキサフルオロプロパン	28987-04-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
chloropentafluoropropane	クロロペンタフルオロプロパン(別名:HCFC-235)	108662-83-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
chlorotetrafluoropropane	クロロテトラフルオロプロパン(別名HCFC-244)	134190-50-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
chlorotrifluoropropane	クロロトリフルオロプロパン(別名:HCFC-253)	26588-23-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
chloro-1,1,1-trifluoroethane	クロロトリフルオロエタン(別名HCFC-133)	75-88-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Pentachlorodifluoropropane	ペンタクロロジフルオロプロパン	116867-32-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Pentachlorofluoropropane	ペンタクロロフルオロプロパン(HCFC-231)	134190-48-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1-chloro-1,1,2-trifluoroethane	クロロトリフルオロエタン(HCFC-133)	421-04-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1-chloro-1,2,2-trifluoroethane	クロロトリフルオロエタン(別名HCFC-133)	431-07-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1-Dichloro-2-fluoroethane	1,1-ジクロロ-2-フルオロエタン	430-53-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1-Dichloro-2,2-difluoroethane	1,1-ジクロロ-2,2-ジフルオロエタン	471-43-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1,2-Tetrachloro-2-fluoroethane	テトラクロロ-2-フルオロエタン(HCFC-121)	354-11-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,1,2,2-Tetrachloro-1-fluoroethane	1,1,2,2-テトラクロロ-1-フルオロエタン	354-14-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane (CFC-214cb)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,1,2-Trichloropentafluoropropane (CFC-215bb)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,1,3-Trichloropentafluoropropane (CFC-215cb)		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,1,1,2,3,3,3-Heptachloro-2-fluoropropane (CFC-211ba)		422-81-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
Bromoethane (ethyl bromide)		74-96-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●														●	
Trifluoriodomethane (trifluoromethyl iodide)		2314-97-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
Chloromethane (methyl chloride)		74-87-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															●
Bromotetrafluoroethane (HBFC-124 B1)		124-72-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
Dibromopentafluoropropane (HBFC-225 B2)		431-78-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
Tribromodifluoropropane (HBFC-242 B3)		70192-80-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
Bromotrifluoropropane (HBFC-253 B1)		421-46-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
Tetrachlorofluoroethane (HCFC-121)		134237-32-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,1,1-Trichloro-2,2-difluoroethane (HCFC-122b)		354-12-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)		90454-18-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
Trichlorofluoroethane (HCFC-131)		134237-34-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1-Chloro-2-fluoroethane (HCFC-151)		762-50-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1-Chloro-1-fluoroethane (HCFC-151a)		1615-75-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,1,1,3,3-pentachloro-2,2-difluoropropane (HCFC-222ca)		422-49-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,2,2,3,3-pentachloro-1,1-difluoropropane (HCFC-222aa)		422-30-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223ca)		422-52-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,1,1,3-Tetrachloro-2,2,3-trifluoropropane (HCFC-223cb)		422-50-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															
1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)		422-54-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)		422-53-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)		422-51-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Chlorohexafluoropropane (HCFC-226)		134308-72-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
2-Chloro-1,1,1,3,3,3-hexafluoro-propane (HCFC-226da)		431-87-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,1,1,2,3-pentachloro-2-fluoro-propane (HCFC-231bb)		421-94-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC-232fc)		460-89-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234db)		425-94-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241db)		666-27-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,3,3-Trichloro-1,1-difluoropropane (HCFC-242fa)		460-63-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244cc)		421-75-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,1,2-Trichloro-1-fluoropropane (HCFC-251dc)		421-41-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,3-Dichloro-1,1-difluoropropane (HCFC-252fb)		819-00-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,2-Dichloro-2-fluoro-propane (HCFC-261ba)		420-97-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1-Chloro-2,2-difluoropropane (HCFC-262ca)		420-99-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1-Chloro-1,1-difluoropropane (HCFC-262fc)		421-02-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1-Chloro-1-fluoropropane (HCFC-271fb)		430-55-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Hydrofluorocarbons (HFC's), saturated, all members	ハイドロフルオロカーボン (HFC)、飽和状態、全て					●																	
1,1,1,2,2,3,3-Heptafluoropropane	1,1,1,2,2,3,3-ヘptaフルオロプロパン	2252-84-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,1,1,2,3,3-Hexafluoropropane	1,1,1,2,3,3-ヘキサフルオロプロパン	431-63-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1,1,2-Tetrafluoroethane	1,1,1,2-テトラフルオロエタン	811-97-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1,2,2-Tetrafluoroethane	1,1,2,2-テトラフルオロエタン	359-35-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1,2-Trifluoroethane	1,1,2-トリフルオロエタン	430-66-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1-Difluoroethane	1,1-ジフルオロエタン	75-37-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
1,2-Difluoroethane	1,2-ジフルオロエタン	624-72-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Difluoroethane	ジフルオロエタン	25497-28-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Difluoromethane	ジフルオロメタン	75-10-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Ethane, 1,1,1-trifluoro-	1,1,1-トリフルオロエタン	420-46-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Ethane, pentafluoro-	ペントフルオロエタン	354-33-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Ethyl fluoride	エチルフルオライド	353-36-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Methyl fluoride	メチルフルオライド	593-53-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1,1,2,2-Pentafluoropropane	1,1,1,2,2-ペントフルオロプロパン	1814-88-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,1,1,3,3-Pentafluoropropane	1,1,1,3,3-ペントフルオロプロパン	460-73-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,1,1,3,3-Pentafluorobutane	1,1,1,3,3-ペントフルオロブタン	406-58-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	1,1,1,2,2,3,4,5,5,5-デカフルオロペンタン	138495-42-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Propane, 1,1,1,2,2,3,3,3-heptafluoro-	1,1,1,2,2,3,3,3-ヘプタフルオロプロパン	431-89-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Propane, 1,1,1,3,3,3-hexafluoro-	1,1,1,3,3,3-ヘキサフルオロプロパン	690-39-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Propane, hexafluoro-	ヘキサフルオロプロパン	27070-61-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Trifluoroethane	トリフルオロエタン	27987-06-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Trifluoromethane	トリフルオロメタン	75-46-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Hexafluoroethane (PFC-116)		76-16-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Octafluoropropane (PFC-218)		76-19-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Decafluorobutane (PFC-31-10)		355-25-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Dodecafluoropentane (PFC-41-12)		678-26-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Tetradecafluorohexane (PFC-51-14)		355-42-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Octafluorocyclobutane (PFC-c318)		115-25-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
1,1,1,2,2,3-Hexafluoro-propane (HFC-236cb)		677-56-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																

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1,1,2,2,3-Pentafluoropropane (HFC-245ca)		679-86-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000		●																
Indium tin oxide (ITO)		50926-11-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromopropoxy)benzene]		21850-44-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900	●	●																
1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene]		97416-84-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Isodecyl diphenyl phosphate		29761-21-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
4,4'-isopropylidenediphenol		80-05-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●	●										●			●	
Isopropylphenyl phosphate		68937-41-7	Reduced	Products excluding lubricating oil and grease	Intentional addition	●	●																●
Lead and its compounds, all members	鉛およびその化合物、全て					●																	
(2-Ethylhexanoato-O)(isodecanoato-O)lead	(2-イソカドレート-O)(イソデカレート-O) 鉛	94246-92-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●	●										●	
(2-Ethylhexanoato-O)(isononanoato-O)lead	(2-イソナノレート-O)(イソノナレート-O) 鉛	94246-91-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●	●										●	
(2-Ethylhexanoato-O)(isooctanoato-O)lead	(2-イソオクトレート-O)(イソオクトレート-O) 鉛	94246-90-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
(2-Ethylhexanoato-O)(neodecanoato-O)lead	(2-エチルヘキサン酸-O)(ネオデカノ酸-O)鉛	94246-93-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
(Isodecanoato-O)(isononanoato-O)lead	(イソデカノ酸-O)(イソノナノ酸-O)鉛	94246-86-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
(Isodecanoato-O)(isooctanoato-O)lead	(イソデカノ酸-O)(イソオクタン酸-O)鉛	94246-85-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
(Isodecanoato-O)(neodecanoato-O)lead	(イソデカノ酸-O)(ネオデカノ酸-O)鉛	94246-87-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
(Isononanoato-O)(isooctanoato-O)lead	(イソノナノ酸-O)(イソオクタン酸-O)鉛	94246-84-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
(Isononanoato-O)(neodecanoato-O)lead	(イソノナノ酸-O)(ネオデカノ酸-O)鉛	94481-58-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
(Neononanoato-O)(neoundecanoato-O)lead	(ネオノナノ酸-O)(ネオウンデカノ酸-O) 鉛	93894-64-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
.alpha.-D-Glucopyranose, 1-(dihydrogen phosphate), lead salt	α-D-グルコピラノース1-リン酸鉛	68901-12-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
[.mu.-(4,6-Dinitroresorcinolato(2-)- O1,O3)]dihydroxydilead	[μ-(4,6-ジニトロレソルシノール(2-)-O1,O3)]二水酸化 二鉛	84837-22-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
[.mu.-[[5,5'-Azobis[1H-tetrazolato]](2- )]dihydroxydilead	[μ-[[5,5'-アゾビス[1H-テトラゾール]](2-)]二水素 二鉛	94015-57-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
1,2,3-Propanetricarboxylic acid, 2-hydroxy- , lead salt	1,2,3-プロパントリカルボキシル酸2-ヒドロキシ 鉛	14450-60-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
1,2,3-Propanetricarboxylic acid, 2-hydroxy- , lead(2+) salt (2:3)	1,2,3-プロパントリカルボキシル酸2-ヒドロキシ 鉛(2:3)	512-26-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3), trihydrate	1,2,3-プロパン三車酸(II)三水和物	6107-83-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
1,2-Benzenedicarboxylic acid, lead(2+) salt	1,2-ベンゼンジカルボン酸鉛	18608-34-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
1,2-Benzenedicarboxylic acid, lead(2+) salt, basic	塩基性1,2-ベンゼンジカルボン酸鉛(II)塩	90193-83-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
1,3,5,7,9-Pentaoxa-2,4,6,8-tetrahydro-2,4,6,8-tetraazabicyclo[3.3.1]nona-2,4,6,8-tetraene, (Z)-	1,3,5,7,9-ペンタオキサ-2,4,6,8-テトラヒドロ-2,4,6,8-テトラアザビシクロ[3.3.1]ノナ-2,4,6,8-テトラエン, (Z)-	12275-07-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
1,3,5-Triazine-2,4,6-(1H,3H,5H)-trione, lead salt	1,3,5-トリアジン-2,4,6-(1H,3H,5H)-トリアジン三酸鉛塩	54554-36-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
1,3-Benzenediol, 2,4,6-trinitro-, lead salt/Lead styphnate	2,4,6-トリニトロ-1,3-ベンゼンジオール鉛塩	15245-44-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●											●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,3-Benzenediol, nitro-, lead(2+) salt (1:1)	1,3-ベンゼンジオールニトロ-鉛(2+)塩(1:1)	70268-38-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
2,4-Cyclohexadien-1-one, 3,5,6-trihydroxy-4,6-bis(3-methyl-2-butenyl)-2-(3-methyl-2-oxobutyl)-, lead salt, (R)-	2,4-シクロヘキサジエン-1-オン, 3,5,6-トリヒドロキシ-4,6-ビス(3-メチル-2-ブテンイル)-2-(3-メチル-2-オキソブチル)-, 鉛(2+)塩, (R)-	68901-11-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
2-Butenedioic acid (E)-, lead salt	((E)-2-ブテンジ酸)の鉛塩	13698-55-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
2-Butenedioic acid (E)-, lead(2+) salt, basic	塩基性2-ブテンジ酸鉛	90268-59-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
2-Butenedioic acid (Z)-, lead(2+) salt, basic	塩基性2-ブテンジ酸(Z) 鉛塩	90268-66-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
2-Propenoic acid, 2-methyl-, lead salt, basic	2-メチル-2-プロパノイック酸鉛塩	90552-19-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, lead(2+) bis(2-methyl-2-propenoate) and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)	メチルアクリレート(2-メチル-2-プロパノ酸)鉛(II)ビス(2-メチル-2-プロパノート)とエチンベンゼン共重合体(2-メチル-2-プロパノート)のα-(2-メチル-1-オキソ-2-プロペン-1-イル)オキシポリ(オキシ-1,2-エタニドール)	68155-47-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
3-(Triphenylplumbyl)-1H-pyrazole	3-(トリフェニル鉛)-1H-ピラゾール	51105-45-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
7,11-Metheno-11H,13H-tetrazolo[1,5-c][1,7,3,5,2,6]dioxadiazadiplumbacyclododecine, 5,5,13,13-tetrahydro-4,5-dihydro-15-tetranitro-	7,11-メチノ-11H,13H-テトラゾロ[1,5-c][1,7,3,5,2,6]ジオキサジアジプレンシクロドodecイン, 5,5,13,13-テトラヒドロ-4,5-ジヒドロ-15-テトラニトロ	19651-80-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
7-Methyloctanoic acid, lead salt	7-メチルオクタノ酸鉛	97952-39-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
9-Hexadecenoic acid, lead(2+) salt, (Z)-, basic	塩基性9-ヘキサデセン酸鉛(II)塩	90388-15-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
9-Octadecenoic acid (Z)-, lead salt	オクタデセン酸鉛(混合)	15347-55-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
9-Octadecenoic acid (Z)-, lead salt, basic	塩基性9-ノドセン酸鉛(Ⅱ)塩	90459-88-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Acetic acid, lead salt, basic	塩基性酢酸鉛	51404-69-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●													●	
Acetoxytributylplumbane	アトキソトリブチル鉛	2587-82-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Acetoxytrimethylplumbane	酢酸トリメチル鉛	5711-19-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Acetoxytriphenylplumbane	アトキソトリフェニル鉛	1162-06-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Arsenic acid, lead (4+) salt	砒酸鉛(4+)塩	53404-12-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Basic lead sulfite	塩基性亜硫酸鉛	12608-25-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives, lead(2+) salts	ベンゼンスルホン酸鉛(Ⅱ) 塩(炭素数10-13の炭化水 素化合物誘導体)	84961-75-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Bis(diethyldithiocarbamato-S,S')lead	ビス(ジエチルチオカルバト-S,S')酸鉛	17549-30-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Bis(o-acetoxybenzoato)lead	ビス(オアセトキシ安息香酸)鉛	62451-77-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Bis(pentane-2,4-dionato-O,O')lead	ビス(2,4-ペンタジオネ-O,O')鉛(Ⅱ)	15282-88-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Bismuth lead ruthenium oxide	酸化ビスマス鉛ルテニウム	65229-22-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Bismuth, compound with lead (1:1)	ビスマス鉛	12048-28-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, lead(2+) salt (1:1)	酒石酸鉛(Ⅱ)	815-84-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Carbamodithioic acid, ethylphenyl-, lead(2+) salt	ビス(1-フェニルエチル)チオチオ酸鉛	93892-65-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Carbonic acid, lead(2+) salt	炭酸鉛(Ⅱ)	25510-11-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Castor oil, dehydrated, polymer with rosin, calcium lead zinc salt	合成樹脂原料となる脱水化したひまし油のカルシウム鉛亜鉛油	68604-05-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Chlorotrimethylplumbane	トリメチル鉛	1520-78-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Chlorotriphenylplumbane	塩化トリフェニル鉛	1153-06-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead sulfochromate yellow(C.I. Pigment Yellow 34)	硫加鉛黄色 (CIピグメントイロ-34)	1344-37-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●								●			●	
Chromium lead oxide	加鉛酸	11119-70-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Chromium lead oxide sulfate, silica- modified	変性ケイ酸硫酸加鉛酸	116565-74-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
C.I. Pigment Orange 21	ピグメントオレンジ 21	1344-38-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Copper, .beta.-resorcylate salicylate lead complexes	β-リゾールン酸リザリ酸鉛銅の混合物	68411-07-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●					●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Cyclohexanebutanoic acid, lead(2+) salt	シカハチブタン酸鉛(II)塩	62637-99-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Decanoic acid, branched, lead salts	分岐型デカン酸鉛塩	90342-24-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Decanoic acid, lead salt	デカン酸鉛(混合)	20403-42-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Diacetoxydiphenylplumbane	ジアセトキシジフェニル鉛酸塩	6928-68-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Diamyldithiocarbamate, lead	ジアミルジチオカバレート鉛酸塩	109707-90-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Diantimony lead tetroxide	二アンチモン鉛四酸化物	16450-50-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Dibasic lead stearate	トリステアリン酸二鉛	56189-09-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Dibismuth dilead tetraruthenium tridecaoxide	ビスマス二鉛三酸化ルテチウム三酸化	11116-83-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Dilead chromate dihydroxide	水酸化鉛二酸化クロム	12017-86-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Dilead dirhodium heptaoxide	二鉛二酸化ロジウム七酸化物	37240-96-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Diphenyllead dichloride	ジフェニル鉛二塩化	2117-69-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Diplumbane, hexaethyl-	ヘキサエチル二鉛酸塩	2388-00-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Diplumbane, hexaphenyl-	ヘキサフェニル二鉛酸塩	3124-01-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Docosanoic acid, lead salt	ドコサノ酸鉛	3249-61-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Dodecanoic acid, lead salt, basic	塩基性ドデカノ酸鉛塩	90342-56-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Dodecanoic acid, lead(2+) salt	ドデカノ酸鉛(II)	15773-55-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, C12-18, lead salts	脂肪酸鉛塩(炭素数12-18)	68131-60-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, C14-26, lead salts	脂肪酸鉛塩(炭素数C14-26)	93165-26-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Fatty acids, C16-18, lead salts	脂肪酸鉛塩(炭素数C16-18)	91031-62-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●										●		
Fatty acids, C18-24, lead salts	脂肪酸鉛塩(炭素数18-24)	84776-54-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, C4- 20-branched, lead salts	脂肪酸鉛の塩(炭素数4-20)	125328-49-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, C6- 19-branched, lead salts	分岐型脂肪酸鉛塩(炭素数C6-19)	91002-20-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, C8-10, lead salts	脂肪酸鉛塩(炭素数C8-10)	91031-61-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, C8-10-branched, lead salts	分岐型脂肪酸鉛塩(炭素数8-10)	85049-42-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Fatty acids, C8-10-branched, lead salts, basic	塩基性鉛/脂肪酸(炭素数8-10 /分枝型)	68409-79-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Fatty acids, C8-12, lead salts	脂肪酸鉛塩(炭素数8-12)	84776-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Fatty acids, C8-18 and C18-unsaturated, lead salts	脂肪酸鉛塩(炭素数8-18及び18個/不飽和物)	84776-36-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Fatty acids, C8-9, lead salts	脂肪酸鉛塩(炭素数C8-9)	91031-60-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Fatty acids, C9-11-branched, lead salts	分枝型脂肪酸(炭素数9-11)鉛塩	81412-57-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Fatty acids, castor-oil, hydrogenated, lead salts	水素化したひまし油の脂肪酸鉛塩	91697-36-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Fatty acids, coco, lead salts	椰子油の脂肪酸鉛塩	92044-89-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Fatty acids, tall-oil, lead manganese salts	脂肪酸トール油鉛マンガニン塩	61788-53-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, tall-oil, lead salts	脂肪酸トール油鉛塩	61788-54-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Fatty acids, tallow, reaction products with lead oxide	酸化鉛により反応生成される獣脂の脂肪酸	94349-78-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Flue dust, lead blast furnace	鉛高炉中の煙塵	70514-05-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Formic acid, lead salt	* 酸鉛塩	7056-83-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Gilsonite, polymer with linseed oil, lead salt	アクリル樹脂のリン酸鉛塩	68989-89-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, lead(2+) sodiumsalt (1:1:2)	N,N'-1,2-エチレンジアミン[N-(カルボキシル基)グリシン,鉛(Ⅱ),ナトリウム(1:1:2)]	22904-40-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Hafnium lead trioxide	酸化鉛ハフニウム	12029-23-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Hexacosanoic acid, lead salt	ヘキサコサノ酸鉛塩	94006-20-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Hexadecanoic acid, lead salt, basic	塩基性ヘキサデカノ酸鉛塩	90388-09-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Hexadecanoic acid, lead(2+) salt, basic	塩基性ヘキサデカノ酸鉛(Ⅱ)塩	90388-10-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Hexanoic acid, 2-ethyl-, lead(2+) salt	2-エチルヘキサ酸鉛(II)	301-08-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Hexanoic acid, 3,5,5-trimethyl-, lead salt	3,5,5-トリメチルヘキサ酸鉛(混合)	23621-79-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Hydroxy(neodecanoato-O)lead	ネオデカノ酸水酸化鉛	71753-04-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Iron lead oxide (Fe12PbO19)	酸化鉄鉛(Fe12PbO19)	12023-90-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Isodecanoic acid, lead salt, basic	塩基性イソデカ酸鉛塩	90431-14-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Isodecanoic acid, lead(2+) salt, basic	塩基性イソデカ酸鉛(II) 塩	91671-82-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Isononanoic acid, lead salt	イソノナノ酸鉛(混合)	27253-41-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Isononanoic acid, lead salt, basic	塩基性イソノナノ酸鉛塩	90431-21-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Isooctanoic acid, lead salt	イソオクタノ酸鉛(混合)	64504-12-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Isooctanoic acid, lead salt, basic	塩基性イソオクタノ酸鉛塩	90431-26-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Isooctanoic acid, lead(2+) salt, basic	塩基性イソオクタノ酸鉛(Ⅱ)塩	91671-83-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Isoundecanoic acid, lead(2+) salt, basic	塩基性イソウンデカノ酸鉛(Ⅱ)塩	91671-84-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lauric acid, lead salt	ラウリン酸鉛(混合)	15306-30-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Leach residues, lead slag	鉛スラグ中の鉛残留物	69029-71-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead	鉛	7439-92-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●													●	
Lead (II) acetate, trihydrate	酢酸鉛三水和物	6080-56-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●															●	
Lead (II) methylthiolate	メチルチオ鉛(Ⅱ)	35029-96-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead (IV) acetate	酢酸鉛(Ⅳ)	546-67-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead borosilicate Pb5B2SiO10		-	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead 12-hydroxyoctadecanoate	12-ヒドロキステアリン酸鉛	65127-78-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead 2,4-dihydroxybenzoate	2,4-ジヒドロキシ安息香酸鉛(混合)	20936-32-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead 2-ethylhexoate	2-エチルヘキソ酸鉛(混合)	16996-40-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead 3-(acetamido)phthalate	3-(アセチルアミノ)フタル酸鉛	93839-98-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead 5-nitroterephthalate	5-ニトロフタル酸鉛	60580-60-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead acetate	酢酸鉛(混合)	15347-57-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead acetate	酢酸鉛(混合)	301-04-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●												●	
Lead acrylate	アクリル酸鉛	14466-01-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead alloy, dross	トビ中の鉛合金	69011-59-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead alloy, Pb,Sn, dross	トビトビ中の鉛合金	69011-60-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead antimonate	アンチモン酸鉛	13510-89-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
Lead antimonide	アモニウム鉛	12266-38-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●		
Lead arsenate	砒酸鉛	3687-31-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●															
Lead arsenate	砒酸鉛	7784-40-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●										●					
Lead arsenate (Pb3(AsO4)2)	砒酸鉛(ii)	10102-48-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●															
Lead arsenate, unspecified	砒酸鉛(混合)	7645-25-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●															
Lead arsenite	亜砒酸鉛	10031-13-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead azide	アゾ化鉛(Ⅱ)	13424-46-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●	●	●										●		
Lead benzoate	安息香酸鉛(混合)	15907-04-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	
Lead bis(12-hydroxystearate)	ジステアリン酸鉛	58405-97-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	
Lead bis(2-ethylhexanoate)	鉛(Ⅱ)ジ(2-エチルヘキシル酸)	93840-04-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	
Lead bis(3,5,5-trimethylhexanoate)	鉛(Ⅱ)ジ(3,5,5-トリメチルヘキシル酸)	35837-70-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	
Lead bis(5-oxo-DL-prolinate)	鉛(Ⅱ)ジ(5-オキソ-DL-ピロリジン酸)	85392-78-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead bis(5-oxo-L-prolinate)	鉛(II)ピロリジン-5-オキソ-L-プロリン酸	85392-77-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bis(isononanoate)	鉛(II)イソノナン酸	52847-85-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bis(isoundecanoate)	イソウンデカン酸鉛(II)	93965-29-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bis(nonylphenolate)	ノニルフェノール鉛(II)塩	72586-00-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bis(piperidine-1-carbodithioate)	ピペリジン-1-カルボジチオ酸鉛	41556-46-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bis(p-octylphenolate)	オクチルフェノール鉛	84394-98-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead bis(tetracosylbenzenesulphonate)	ビス(テトラコシルベンゼン sulfonate) 鉛	85865-91-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bis(tricosanoate)	ビス(トリコサノ酸)鉛	93966-37-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bis[didodecylbenzenesulphonate]	ビス(ジドデシルベンゼン sulfonate) 鉛	85865-92-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead borate	硼酸鉛(II)	14720-53-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead b-resorcylate	2,4-ビス(ヒドロキシ)安息香酸鉛(II)	41453-50-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead bromide (PbBr2)	臭化鉛(Ⅱ)	10031-22-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead carbonate	炭酸鉛(Ⅱ)	598-63-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●													●		
Lead chloride	塩化鉛(Ⅱ)	7758-95-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead chloride (V.A.N.)	塩化鉛(V.A.N.)	12612-47-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead chloride oxide	塩化鉛酸化物	12205-72-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead chromate	鉛酸鉛	7758-97-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●										●			●	
Lead chromate oxide	塩基性鉛酸鉛	18454-12-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead chromate silicate	ケイ酸ケルム鉛	11113-70-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead chromate silicate (Pb3(CrO4)(SiO4))	ケイ酸鉛	69011-07-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead chromate sulfate (Pb9(CrO4)5(SO4)4)	硫酸鉛ケルムト (Pb9(CrO4)5(SO4)4)	51899-02-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead cyanamidate	シアンミト鉛	20890-10-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead cyanamide	シアンミト鉛(II)	20837-86-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●														●	
Lead cyanamide	シアンミト鉛(II)	35112-70-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead cyanide	シアン化鉛(Ⅱ)	592-05-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead dibenzoate	安息香酸鉛	873-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead dibromate	二臭素酸鉛(Ⅱ)	34018-28-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead dibutanolate	鉛(Ⅱ)ジブタン酸(1-7-7)	65119-94-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead dibutyrate	酪酸鉛	819-73-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead didicosanoate	ドデカノ酸鉛(Ⅱ)	29597-84-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead dihexanoate	カドヘキサン酸鉛(II)	15773-53-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead dilactate	乳酸鉛(Ⅱ)	18917-82-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead dilinoleate	カド(9Z,12Z)-9,12-ジノナドヘキサン酸鉛(II)	33627-12-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead dimethylthiocarbamate	ジメチルチオカルバミン酸鉛	19010-66-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead dimyristate	ミリスチン酸鉛	32112-52-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead dipalmitate	パルミチン酸鉛	15773-56-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead diphosphinate	鉛ジリン酸塩(Ⅱ)	10294-58-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Lead dipicrate	二クロム酸鉛	6477-64-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●		●											●	
Lead dipropionate	ジプロピオン酸鉛(Ⅱ)	814-70-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead disulphamidate	ジスチルホン酸鉛(Ⅱ)	13767-78-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead disulphide	硫化鉛	12137-74-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead diundec-10-enoate	ドデカノール酸鉛(Ⅱ)	94232-40-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead fluoroborate	フッ化鉛酸(Ⅱ)	13814-96-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●	●	●										●		
Lead fluoride	フッ化鉛	7783-46-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	
Lead fluoride hydroxide	水酸化フッ化鉛	97889-90-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	
Lead fluorosilicate	フッ化鉛二水和物	25808-74-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●								●			●	
Lead formate	フッ化鉛	811-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	
Lead germanate	ゲルマニウム酸鉛	12435-47-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead hexafluorosilicate	ヘキサフルオロケイ酸鉛(Ⅱ)	1310-03-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Lead hydroxide	水酸化鉛	19783-14-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead hydroxide	水酸化鉛	39345-91-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead hydroxide nitrate	水酸化鉛窒化物	12268-84-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead hydroxysalicylate	水酸化別昇酸鉛	87903-39-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead icosanoate	二十酸鉛	94266-32-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead icosanoate (1:2)	イソカド酸鉛( 2:1)	94266-31-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead iodate	ヨウ素酸鉛	25659-31-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead iodide	ヨウ化鉛	10101-63-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead isophthalate	イソフタル酸鉛	38787-87-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead linoleate	リノール酸鉛	16996-51-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead malate	リンゴ酸鉛	816-68-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead maleate	(Z)-2-ブテン二酸,塩	19136-34-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead methacrylate	メタクリル酸鉛(Ⅱ)	1068-61-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead methacrylate	メタクリル酸鉛(Ⅱ)	52609-46-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead molybdate	モリブデン酸鉛(Ⅱ)	10190-55-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead monoxide	一酸化鉛	1317-36-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●												●	
Lead myristate	テトラカ酸、鉛	20403-41-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead naphthalate	シカハチカハチ酸鉛	50825-29-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead naphthenate	ナフテン酸鉛	61790-14-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead neobate	ニオブ酸鉛(Ⅱ)	12034-88-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead neodecanoate	ネオデカノ酸鉛(混合)	27253-28-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead nitrate	硝酸鉛	10099-74-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●													●	
Lead nitroresorcinate	ニトロレソルシ酸鉛	51317-24-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead oleate	オレイン酸鉛	1120-46-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead oxalate	オキソ酸鉛(II)	814-93-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead oxide	酸化鉛	1335-25-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●					●	●									●	
Lead oxide (Pb2O)	酸化鉛	12059-89-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●			●									●	
Lead oxide (PbO), lead-contg.	鉛含有の酸化鉛	68411-78-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●			●									●	
Lead oxide (PbO), retort	溶融物中の酸化鉛	69029-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●			●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Lead oxide phosphonate (Pb3O2(HPO3))	二塩基性リン酸鉛	12141-20-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●										●			
Lead oxide phosphonate, hemihydrate	半水リン酸鉛(Ⅱ)	1344-40-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●		
Lead oxide sulfate	酸化硫酸鉛	12765-51-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●	●	●											●		
Lead oxide sulfate (Pb2O(SO4))	一塩基性硫酸鉛	12036-76-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●												●	
Lead oxide sulfate (Pb4O3(SO4))	三塩基性硫酸鉛	12202-17-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●												●	
Lead oxide sulfate (Pb5O4(SO4))	硫酸四酸化五鉛	12065-90-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead palmitate	パルミチン酸鉛(混合)	19528-55-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead pentadecanoate	ペンタデカノ酸鉛(混合)	93966-74-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead perchlorate	過塩素酸鉛(Ⅱ)	13637-76-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●		●												●	
Lead peroxide	二酸化鉛	1309-60-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●		●												●	
Lead phosphate	リン酸鉛	7446-27-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●		●												●	
Lead phthalate	フタル酸鉛	16183-12-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead phthalate	フタル酸鉛	6838-85-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead picrate	ピクリン酸鉛	25721-38-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead propionate	プロピオン酸鉛	42558-73-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead pyrophosphate	ピロリン酸鉛	13453-66-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead ruthenium oxide (PbRuO3)	ルテニウム酸鉛	37194-88-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead sebacate	セバチン酸鉛	29473-77-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead selenate	セレン酸鉛(Ⅱ)	7446-15-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead selenide (PbSe)	セレン化鉛(Ⅱ)	12069-00-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●		●													●	
Lead selenite	亜セレン化鉛	7488-51-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead silicate	ケイ酸鉛	11120-22-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●													●	
Lead silicate	ケイ酸鉛	13566-17-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead silicate	ケイ酸鉛	22569-74-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead silicate sulfate	硫化ケイ酸鉛	12687-78-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead silicate sulfate	硫化ケイ酸鉛	67711-86-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead stearate	ステアリン酸鉛(C18H36O2.xPb)	7428-48-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead stearate dibasic	二塩基性ステアリン酸鉛	52652-59-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●																●	
Lead subacetate	塩基性酢酸鉛	1335-32-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead succinate	コハク酸鉛	1191-18-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead sulfate	硫酸鉛(SO4 xPb)	15739-80-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●		●	●					●				●		
Lead sulfate	硫酸鉛(SO4 xPb)	7446-14-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●		●	●						●				●	
Lead sulfate, tribasic	塩基性硫酸鉛	12397-06-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●		●	●						●				●	
Lead sulfide (PbS)	硫化鉛	1314-87-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●		●	●						●				●	
Lead sulfomolybdochromate, silica encapsulated	矽酸入りモリブデン系硫酸鉛	116565-73-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●		●	●						●				●	
Lead tantalate	タンタル酸鉛(Ⅱ)	12065-68-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●		●	●						●				●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead telluride	碲化鉛(Ⅱ)	1314-91-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead tellurite	亜碲化鉛	13845-35-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead tetrachloride		13463-30-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead tetracosanoate	テトラコサノ酸鉛(混合)	93966-38-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead tetraoxide	酸化鉛	1314-41-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●												●	
Lead thiocyanate	チオシアン酸鉛(Ⅱ)	592-87-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Lead thiosulfate	チオ硫酸鉛	13478-50-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●			
Lead tin oxide (PbSnO3)	酸化スズ鉛	12036-31-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●		
Lead titanium oxide (PbTiO3)	チタン酸鉛	12060-00-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●														●	
Lead titanium zirconium oxide (Pb(Ti,Zr)O3)	ジルコニウムチタン酸鉛	12626-81-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●														●	
Lead trioxide	三酸化鉛(IV)鉛(Ⅱ)	1314-27-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●														●	
Lead tungsten oxide	タングステン酸鉛(Ⅱ)	7759-01-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●														●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead tungsten oxide	タングステン酸鉛(Ⅱ)	12737-98-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead vanadate	バナジウム酸鉛	10099-79-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead zirconate	ジルコニウム酸鉛(Ⅱ)	12060-01-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(2+) (R)-12-hydroxyoleate	リノール酸鉛(Ⅱ)	13094-04-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(2+) (Z)-hexadec-9-enoate	(Z)-ヘキサデカ-9-エノ酸鉛(Ⅱ)	93858-24-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(2+) 2,4-dinitroresorcinolate	2,4-ジニトロレゾルシノール酸鉛(Ⅱ)	13406-89-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead(2+) 4-(1,1-dimethylethyl)benzoate	4-(1, 1-ジメチルエチル)安息香酸鉛(II)	85292-77-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead(2+) 4,4'-isopropylidenebisphenolate	4,4'-イソプロピリデンビスフェノール酸鉛	93858-23-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(2+) 4,6-dinitro-o-cresolate	4,6-ジニトロ-ortho-クレゾール酸鉛	65121-76-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(2+) acrylate	アクリル酸鉛	867-47-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(2+) decanoate	デカン酸鉛(II)	15773-52-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(2+) heptadecanoate	ヘプタデカン酸鉛(II)	63399-94-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead(2+) isohexadecanoate	イソヘキサデカン酸鉛(Ⅱ)	95892-13-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead(2+) isoctadecanoate	イソオクタデカン酸鉛(Ⅱ)	70727-02-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead(2+) neodecanoate	ネオデカン酸鉛(Ⅱ)	71684-29-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead(2+) neononanoate	ネオノナン酸鉛(Ⅱ)	93894-48-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead(2+) neoundecanoate	ネオウンデカン酸鉛(Ⅱ)	93894-49-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead(2+) octanoate	オクタデカン酸鉛(Ⅱ)	7319-86-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead(4+) stearate	ステアリン酸鉛(IV)	7717-46-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(II) fumarate	フマル酸鉛(Ⅱ)	71686-03-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(II) isodecanoate	イデカノ酸鉛(Ⅱ)	84852-34-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(II) isooctanoate	イソオクタン酸鉛(Ⅱ)	93981-67-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(II) maleate	マレイン酸鉛(Ⅱ)	17406-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead(IV) fluoride	フッ化鉛(IV)	7783-59-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Lead, (2-methyl-4,6-dinitrophenolato-01)(nitrato-O)-.mu.-oxodi-, monohydrate	μ-メチル-(2-ニトロ-4, 6-ジニトロフェノート-01)(ニトラー-0)鉛一水和物	79357-62-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead, [.mu.-[1,2-benzenedicarboxylato(2-)-01:02]]di-.mu.-oxotri-, cyclo-	シクロ[1, 2-ベンゼンジカルボキシレート(2-)]ジμオキソトリ鉛	17976-43-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, [1,2-benzenedicarboxylato(2-)]dioxotri-	ジカルボキシレート鉛	69011-06-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●													●	
Lead, [1,2-benzenedicarboxylato(2-)]oxodi-	二塩基性ジカルボキシレート鉛	57142-78-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	フタロシアニン鉛	15187-16-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, 2-ethylhexanoate isodecanoate complexes, basic	塩基性2-エチルヘキサン酸・イデカン酸混合物中の鉛	90431-30-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead, 2-ethylhexanoate isononanoate complexes, basic	塩基性2-エチルヘキサノ酸・イソノナン酸混合物中の鉛	90431-31-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Lead, 2-ethylhexanoate isooctanoate complexes, basic	塩基性2-エチルヘキサノ酸・イソオクタン酸混合物中の鉛	90431-32-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, 2-ethylhexanoate naphthenate complexes	2-エチルヘキサノ酸・ナフテン酸混合物中の鉛	90431-33-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, 2-ethylhexanoate naphthenate complexes, basic	塩基性2-エチルヘキサノ酸・ナフテン酸混合物中の鉛	90431-34-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, 2-ethylhexanoate neodecanoate complexes, basic	塩基性2-エチルヘキサノ酸・ネオデカン酸混合物中の鉛	90431-35-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, 2-ethylhexanoate tall-oil fatty acids complexes	鉛含有の2-エチルヘキサノ酸と脂肪酸トール油の混合物	68187-37-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead, alkyls, manufacturing wastes	廃鉱石中の7種鉛	70513-89-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, antimonial	アチモ化鉛	69029-50-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, antimonial, dross	トross中のアチモ化鉛	69029-51-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, bis(2-hydroxybenzoato-O1,O2)-, (T-4)-	ビス(2-ヒドロキシベンゾエート)-鉛	15748-73-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, bis(dipentylcarbomodithioato-S,S')-, (T-4)-	ビス(ジペンチルチオカルバモジチオート-S,S')-鉛	36501-84-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, bis(diphenylcarbomodithioato-S,S')-, (T-4)-	ビス(ジフェニルチオカルバモジチオート-S,S')-鉛	75790-73-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead, bis(octadecanoato)dioxotri-	ジオクタデカノート(スチレン酸)三鉛	12578-12-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●										●		
Lead, bullion	金鉱石中の鉛	97808-88-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, C3-13-fatty acid naphthenate complexes	脂肪酸(炭素数3-13)とナフテン酸混合物との鉛化合物	79803-79-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, C4-10-fatty acid naphthenate complexes	脂肪酸(炭素数4-10)、ナフテン酸混合物中の鉛	84067-00-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, C4-10-fatty acid octanoate complexes	脂肪酸(炭素数4-10)、オクタノ酸混合物中の鉛	92200-92-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, C5-23-branched carboxylate C4-10- fatty acid complexes	分岐型カルボン酸(炭素数5-23)、脂肪酸(炭素数4-10)混合物中の鉛	84066-98-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Lead, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes	分岐型カリン酸(炭素数5-23)、脂肪酸(炭素数4-10)、ナフテン酸の混合物の鉛塩	83711-45-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, C5-23-branched carboxylate naphthenate complexes	分岐型カリン酸(炭素数5-23)、脂肪酸の混合物の鉛塩	83711-46-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, C5-23-branched carboxylate naphthenate octanoate complexes	分岐型カリン酸(炭素数5-23)、脂肪酸、オクタノ酸の混合物の鉛塩	83711-47-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, C5-23-branched carboxylate octanoate complexes	分岐型カリン酸(炭素数5-23)、オクタノ酸混合物中の鉛	84066-99-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, C6-19-branched carboxylate naphthenate complexes	分岐型カリン酸(炭素数6-19)と脂肪酸の混合物中の鉛	70084-67-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes	分岐型脂肪酸(炭素数8-10)、新脂肪酸(炭素数9-11)、脂肪酸混合物中の鉛	90431-28-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes, overbased	分岐型脂肪酸(炭素数8-10)、新脂肪酸(炭素数9-11)、ナフテン酸混合物中の鉛(過塩基性)	90431-27-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead, C9- 28-neocarboxylate 2-ethylhexanoate complexes, basic	塩基性鉛、ネオカルキ酸(炭素数9-28)と2-エチルヘキサン酸混合物	125494-56-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, decanoate octanoate complexes	デカン酸トカノ酸混合物中の鉛	70321-55-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, di-.mu.-hydroxy(2-methyl-4,6-dinitrophenolato-O1)(nitrato-O)di-	ジ-μ-ヒドキシ(2-メチル-4,6-ジニトロフェノール酸-O1)(硝酸-O)二鉛	96471-22-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di-	ジヒドキシ[2,4,6-トリニトロ-1,3-ベンゼンジオレート(2-)]二鉛	12403-82-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, dross	ドross中の鉛	69029-52-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead, dross, antimony-rich	アンチモン豊富な鉛入りドross	69029-45-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, dross, bismuth-rich	ビスマス豊富な鉛入りドross	69029-46-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, dross, copper-rich	銅豊富なドross中の鉛	69227-11-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, dross, vanadium-zinc-containing	バナジウム-亜鉛合金に含有するドross状鉛	100656-49-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, isodecanoate isononanoate complexes, basic	塩基性イテラ酸、イソノナン酸混合物中の鉛	90431-36-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, isodecanoate isooctanoate complexes, basic	塩基性イテラ酸、イソオクタン酸混合物中の鉛	90431-37-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Lead, isodecanoate naphthenate complexes	イデカ酸、ナフテン酸混合物中の鉛	90431-38-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead, isodecanoate naphthenate complexes, basic	イデカ酸とナフテン酸の混合物	101012-92-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, isodecanoate neodecanoate complexes, basic	塩基性イデカ酸、ネオデカ酸混合物中の鉛	90431-39-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, isononanoate isooctanoate complexes, basic	塩基性イソナフテン酸とイソオクタ酸混合物の鉛	84929-94-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, isononanoate naphthenate complexes	イソナフテン酸とナフテン酸混合物の鉛	84929-97-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Lead, isononanoate naphthenate complexes, basic	塩基性イデカ酸、ナフテン酸混合物中の鉛	90431-40-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Lead, isonanoate neodecanoate complexes, basic	塩基性イデ <sup>ナ</sup> 酸、ネ <sup>ノ</sup> 酸混合物中の鉛	90431-41-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Lead, isooctanoate naphthenate complexes	イ <sup>オ</sup> 酸とナ <sup>フ</sup> 酸の混合物にある鉛	68515-80-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, isooctanoate naphthenate complexes, basic	塩基性イ <sup>オ</sup> 酸、ナ <sup>フ</sup> 酸混合物中の鉛	90431-42-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, isooctanoate neodecanoate complexes	イ <sup>オ</sup> 酸とネ <sup>ノ</sup> 酸鉛の混合物	101013-06-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, isooctanoate neodecanoate complexes, basic	塩基性イ <sup>オ</sup> 酸とネ <sup>ノ</sup> 酸混合物	84929-95-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Lead, naphthenate neodecanoate complexes	ナ <sup>フ</sup> 酸、ネ <sup>ノ</sup> 酸混合物中の鉛	90431-43-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead, naphthenate neodecanoate complexes, basic	塩基性ナフテン酸とネオデカン酸混合物の鉛	84929-96-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, neononanoate neoundecanoate complexes, basic	塩基性ネオノナン酸とネオウンデカン酸混合物中の鉛	90431-44-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead, zinc dross	亜鉛と亜鉛中の鉛	94551-60-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Linseed oil, polymer with tung oil, lead salt	桐油・亜鉛の反応生成物	68990-75-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Linseed oil, reaction products with lead oxide (Pb3O4) and mastic	反応生成により酸化鉛(Pb3O4)を含む桐油や樹脂	68152-99-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Methanesulfonic acid, lead(2+) salt	メタンスルホン酸鉛(II)	17570-76-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●													●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Molybdate orange (Lead chromate pigment)	加鉛酸モリブデン酸亜硫酸鉛赤(CIトケメント104)	12656-85-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●	●	●										●	●	
Naphthalenesulfonic acid, diisononyl-, lead(2+) salt	ジイソノニルナフタレンスルホン酸鉛(II)塩	63568-30-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Naphthalenesulfonic acid, dinonyl-, lead(2+) salt	ジノニルナフタレンスルホン酸鉛塩	61867-68-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Naphthenic acids, lead (2+) salts	ナフテン酸鉛(II)塩	91078-81-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Naphthenic acids, lead manganese salts	ナフテン酸鉛マンガニン塩	61788-52-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Naphthenic acids, lead salts, basic	塩基性ナフテン酸鉛塩	92045-67-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Neodecanoic acid, lead salt, basic	塩基性材料*加酸鉛塩	90459-25-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Neononanoic acid, lead salt, basic	塩基性材料*加酸鉛塩	90459-26-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Neoundecanoic acid, lead salt, basic	塩基性材料*加酸鉛塩	90459-28-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Nitric acid, lead(2+) salt, reaction products with sodium tin oxide	酸化材料*加酸鉛(II)塩	97953-08-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Nitrous acid, lead(2+) salt	亜硝酸鉛塩	13826-65-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Octadecanoic acid, lead salt, basic	塩基性材料*加酸鉛塩	90459-51-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Octadecanoic acid, lead(2+) salt, basic	塩基性物質*カ酸鉛(Ⅱ)塩	90459-52-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Octadecanoic acid, lead(2+) salt, tribasic	三塩基性物質*カ酸鉛(Ⅱ)	52080-60-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Octanoic acid, lead salt	物質*カ酸鉛(混合)	15696-43-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Orthoboric acid, lead(2+) salt	物質*カ酸鉛(Ⅱ) 塩	35498-15-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Perchloric acid, reaction products with lead oxide (pbo) and triethanolamine	酸化鉛(P bO)とトリエタノールアミンによる反応生成物の過 塩素酸	99749-31-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Petrolatum, petroleum, oxidized, lead salt	物質*カ酸鉛化合物	67674-14-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Phenol, 2-methyldinitro-, lead salt	2-メチルジニトロフェノール鉛塩	50319-14-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Phenol, dodecyl-, lead(2+) salt	ドデシルフェノール鉛(Ⅱ)塩	68586-21-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Phenol, tetrapropylene-, lead(2+) salt	テトラプロピレンフェノール鉛(Ⅱ)の塩	122332-23-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Phosphonic acid, lead salt	亜リン酸鉛	16038-76-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Phosphonic acid, lead salt, basic	塩基性リン酸鉛	53807-64-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Phosphonic acid, lead(2+) salt	リン酸鉛(Ⅱ)塩	24824-71-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Phosphonic acid, lead(2+) salt (1:1)	亜リン酸鉛	13453-65-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●	
Phosphonic acid, lead(2+) salt (2:1)	亜リン酸鉛(2:1)	15521-60-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●	
Phosphoric acid, lead(2+) salt (1:1)	リン酸水素鉛(2)	15845-52-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●	
Phosphoric acid, mixed butyl and hexyl diesters, lead(2+) salts	ブチルとヘキシルのリン酸鉛塩	93925-27-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●	
Phosphorodithioate O,O-bis(1,3- dimethylbutyl), lead salt	チオリン酸O,O'-ビス(1,3-ジメチルブチル)鉛塩	20383-42-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●	
Phosphorodithioic acid, mixed O,O-bis(bu and pentyl) esters, lead(2+) salt	チオリン酸O,O'-ビス(ブチル・ペンチル)鉛塩を混合した。	91783-10-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Plumbane, chlorotriethyl-	トリクロロ鉛塩	1067-14-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbane, diethyldimethyl-	ジエチルジメチル鉛	1762-27-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbane, ethyl methyl derivatives	エチルメチル鉛酸塩誘導体	68610-17-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbane, ethyltrimethyl-	エチルトリメチル鉛	1762-26-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbane, tetrabutyl-	テトラブチル鉛酸塩	1920-90-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbane, tetrakis(1-methylethyl)-	テトラキス(1-メチルエチル)鉛酸塩	14846-40-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Plumbane, tetrakis(1-methylpropyl)-	テトラキス(1-メチルプロピル)鉛酸塩	65151-08-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbane, triethylmethyl-	トリエチルメチル鉛	1762-28-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbate (PbO22-), disodium	亜鉛酸ナトリウム	12034-30-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Plumbate (PbO44-), calcium (1:2), (T-4)-	鉛酸カルシウム	12013-69-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Potassium pentadecaoxidiplumbatepentaniobate(1-)	十五水素鉛酸塩五ニワ酸(1-)カルシウム	12372-45-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Residues, copper-iron-lead-nickel matte, sulfuric acid-insol.	銅、鉄、鉛、ニッケル(加)の残渣の非水溶性亜硫酸化合物	102110-49-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Salicylate, lead (II)	サリチル酸鉛(Ⅱ)	6107-93-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Silicic acid (H2SiO3), calcium salt (1:1), lead and manganese-doped	ケイ酸カルシウム塩 鉛トロンカド-ア 塗料	100402-96-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Silicic acid (H2SiO3), lead(2+) salt (1:1)	ケイ酸鉛	10099-76-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Silicic acid (H4SiO4), lead salt	ケイ酸鉛	15906-71-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Silicic acid, calcium salt, lead and manganese-doped	ケイ酸カルシウム塩 鉛トロンカド-ア 塗料	102110-36-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Silicic acid, lead nickel salt	ケイ酸鉛ニッケル塩	68130-19-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Slimes and sludges, lead sinter dust scrubber	鉛焼結がトリスルハ-中の粘着液、スラッジ	70514-37-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●										●		
Speiss, lead-zinc	鉛-亜鉛比加	93821-72-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, lead salt	2',4',5',7'-トリスルハの四メチレン鉛	1326-05-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Stearic acid, lead (2+) salt	ステアリン酸鉛	1072-35-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●		●		●											●	
Sulfuric acid, barium lead salt	硫酸性バウム鉛塩	42579-89-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	
Sulfuric acid, barium salt (1:1), lead-doped	鉛ト-ブ塗料中の硫酸バウム塩(1:1)	99328-54-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Sulfuric acid, lead salt, tetrabasic	塩基性硫酸鉛	52732-72-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Sulfuric acid, lead(2+) salt, basic	塩基性亜硫酸鉛	90583-07-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Sulfurous acid, lead salt, basic	塩基性亜硫酸鉛	52231-92-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Sulfurous acid, lead salt, dibasic	塩基性亜硫酸鉛	62229-08-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●													●	
Sulfurous acid, lead(2+) salt, basic	塩基性亜硫酸鉛	90583-37-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Sulfurous acid, lead(2++) salt (1:1)	亜硫酸鉛(Ⅱ)	7446-10-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Telluric acid (H <sub>2</sub> TeO <sub>3</sub> ), lead(2+) salt (1:1)	碲酸(H <sub>2</sub> TeO <sub>3</sub> ) 鉛(Ⅱ) 塩(1:1)	15851-47-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Tetradecanoic acid, lead salt, basic	塩基性テトラデカン酸鉛塩	90583-65-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Tetraethyllead	テトラエチル鉛	78-00-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●		●	●	●	●											●	
Tetramethyl lead	テトラメチル鉛	75-74-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Tetraphenyllead	テトラフェニル鉛	595-89-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	
Tetrapropyl lead	テトラプロピル鉛	3440-75-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Thiosulphuric acid, lead salt	チオ硫酸鉛	26265-65-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Lead/Tin alloy	鉛-錫合金	39412-44-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Trinitrochloroglucinol, lead salt	トリニトロクロロジシノール鉛	51325-28-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		
Naphthenic acid, cobalt lead manganese salt	ナフテン酸コバルト鉛マンガニウム塩(混合)	61789-50-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●														
Lead, bis(carbonato(2-))dihydroxytri /Lead carbonate hydroxide	鉛(炭酸)二水酸化三鉛(Ⅱ)	1319-46-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●	●	●	●													●	
Boric acid (HBO2), lead(2+) salt, monohydrate (8Cl, 9Cl)	硼酸鉛	10214-39-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Fatty acids, C6-19-branched, lead salts, basic	塩基性C6-19分枝脂肪酸の鉛塩	68603-83-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Pigment Lightfast Lead-Molybdate Orange OS (9CI)	レダライトオレンジ系鉛モリブdate OS(9CI)	78690-68-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	●			●												●	
Lead chlorate		10294-47-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead hydroxide (Pb(OH))		108350-80-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
2',4',5',7'-Tetrabromofluorescein lead salt		51868-24-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Hexafluorosilicate(2-), lead(2+) (1:1), tetrahydrate		83689-82-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead dichlorite		13453-57-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead chloride (PbCl)		13931-84-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead sulfide		39377-56-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Dilead dioxide		35229-41-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead fluoride (VAN)		53096-04-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Plumblyium, ethyldimethyl-		103730-90-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Plumblyium, diethylmethyl-		105956-70-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, tributylchloro-		13302-14-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Lead bromide chloride		13778-36-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, chlorotripropyl-		1520-71-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, dichlorodimethyl-		1520-77-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Lead, diacetoxidiethyl- (7CI)		15773-47-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Plumbane, (4-bromobutyl)triphenyl-		16035-34-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, (4-azidobutyl)triphenyl-		16035-39-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
1H-Imidazole, 1-(tributylplumbyl)-		16128-42-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, bis(methacryloyloxy)dimethyl-		22515-48-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, bis(acetyloxy)dibutyl-		2587-84-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, tris(acetyloxy)phenyl-		3076-54-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
[Nitrooxy(diphenyl)plumbyl] nitrate		41825-28-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Plumbane, triethyl[[4- methylphenyl)sulfonyl]oxy]-		43135-86-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
9H-Carbazole, 9-(triphenylplumbyl)-		56240-91-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
1H-Indole, 1-(triphenylplumbyl)-		56240-92-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
1H-Pyrrole, 1-(triphenylplumbyl)-		56240-93-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Plumbane, butyltrimethyl-		54964-75-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead diphenyl acid propionate		56764-40-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Butyl-ethyl-dimethylplumbane		65122-14-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Plumbane, tripropyl-		6618-03-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead, triethyl-, oleate		63916-98-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Butyl(triethyl)plumbane		64346-32-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Butyl-diethyl-methylplumbane		65122-13-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
1H-Isoindole-1,3(2H)-dione, 4,5,6, 7-tetrachloro-2-(triethylplumbyl)-		73928-23-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Trimethyl lead		7442-13-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
1H-1,2,3-Triazole-5-methanol, .alpha.,.alpha.-dimethyl-1-[4-(triphenylplumbyl)butyl]-		73826-06-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, [(4-aminobenzoyl)oxy]triethyl-		73928-17-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Chromic acid (H2CrO4), lead(2 ) salt		15804-54-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbylium, trimethyl-		14570-16-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Diethyllead		24952-65-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Acetic acid, fluoro-, triethyllead salt		562-95-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Lead strontium titanium zirconium oxide		153679-91-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Plumbane, dibutyldiethyl-		65121-94-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Resin acids and Rosin acids, calcium salts, polymers with lead resinates and sapond. linseed oil		68139-27-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Carboxylic acids, tall-oil, lead salts, basic		68603-93-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Acetic acid, reaction products with capric acid, carpylic acid, coconut oil, and hydrogenated tallow fatty acids, calcium, lead salts		68784-59-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Gum rosin, litharge polymer		68952-91-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Basic lead beta-resorcylate		68954-05-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Gilsonite, polymer with cyclopentadiene, dicyclopentadiene and linseed oil, lead salts		68956-49-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Barium bismuth lead niobium titanium oxide		68987-33-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Acetic acid, capric acid, caprylic acid, coconut oil, hydrogenated tallow fatty acids, calcium-lead complex salt		69103-04-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Dehydrated castor oil fatty acids, glycerine, C36 fatty acid dimers, litharge polymer		70879-91-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Silicic acid (H6Si2O7), barium zinc salt (1:1:2), lead-doped		71799-66-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Octadecanoic acid, barium lead salt		73105-55-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Bismuth alloy, Bi 50,Pb 25,Cd 12,Sn 12 (L-pbbi50Sn12.5Cd12.5)		76093-98-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
2-[carboxylatomethyl(carboxymethyl)amino]acetate;lead(2+)		79849-02-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Glycine, N,N-bis(carboxymethyl)-, lead(2+) potassium salt (1:1:1)		79915-08-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-[bis(carboxylatomethyl)amino]acetate;lead(2+)		79915-09-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Boric acid (H3BO3), lead(2+) salt (2:3)		91388-81-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Chromic acid (H2CrO4), lead(2+) sodium salt (2:1:2)		93215-61-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Methanesulfonic acid, lead salt		95860-12-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Lanthanum lead titanium zirconium oxide		1227908-26-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Benzoic acid, 4-methyl-, lead(4+) salt		15516-84-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Phenol, lead(2+) salt (2:1)		20534-94-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Phenol, lead salt		25987-03-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Benzoic acid, methyl-, lead(2+) salt		27496-91-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Tetracosanoic acid, lead(2+) salt		28267-01-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead, bis[bis(1-methylethyl)carbomethioato-S,S']-, (T-4)-		30051-53-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Benzoic acid, 3-methyl-, lead(4+) salt		34295-32-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Nonanoic acid, lead salt		41234-07-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Benzoic acid, 2-methyl-, lead(2+) salt		52337-73-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Plumbate(1-), [N,N-bis(carboxymethyl)glycinato(3--N,O,O',O'')]-, sodium, (T-4)-		53113-58-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Benzoic acid, 4-methyl-, lead(2+) salt		58274-53-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
UNDECANSAEURE-PB(II)-SALZ		63400-07-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Nonanoic acid, lead(2+) salt		63400-08-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Lead, bis[bis(2-methylpropyl)carbomethioato-S,S']-, (T-4)-		69090-73-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
9-Octadecenoic acid, lead(2+) salt, (E)-		69637-83-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead, bis(dipropylcarbomethioato-S,S')-, (T-4)-		70995-63-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Ethanesulfonic acid, 2-hydroxy-, lead(2+) salt (2:1)		72437-77-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
22-Tricosenoic acid, lead(2+) salt		76835-98-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Benzoic acid, 2-methyl-, lead salt		76925-97-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Pentanoic acid, 2-propyl-, lead(2+) salt		87835-32-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Benzenesulfonic acid, hydroxy-, lead salt		82696-30-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Benzoic acid, 2-butyl, lead(2+) salt		91187-55-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
1-Propanesulfonic acid, 2-hydroxy-, lead(2+) salt (2:1)		103427-19-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
1-Propanesulfonic acid, 2-hydroxy-, lead salt		114601-64-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
2-Propanesulfonic acid, 1-hydroxy-, lead salt		133988-90-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
p-tert-Butylbenzoic acid lead salt		3249-60-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead sulfite		25666-92-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Calcines, lead-zinc ore conc.		94551-62-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Fumes, lead		94551-66-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Leach residues, copper-lead		94551-72-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Matte, copper-lead		94551-74-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Residues, lead smelting wastewater treatment		94551-78-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Residues, lead-zinc smelting wastewater treatment		94551-79-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Wastes, lead battery reprocessing		94551-99-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Waste solids, lead silver anode		94552-05-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Slimes and Sludges, lead acetate manuf.		96690-46-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Ferrite substances, magnetoplumbite-type, barium-cobalt-titanium		97488-85-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Magnetoplumbite, barium titanium zinc brown		97675-41-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Matte, precious metal		98072-52-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slimes and Sludges, precious metal refining		98072-61-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Matte, copper-lead, tellurium-contg.		100656-53-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Phosphoric acid, calcium salt (1:1), solid soln. with calcium chloride, calcium fluoride, calcium oxide, phosphorus oxide (P2O5) and strontium oxide, lead and manganese-doped		102047-25-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Barium oxide (BaO), solid soln. with calcium oxide, strontium oxide and tungsten oxide (WO3), lead-doped		102110-24-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Boric acid (H3BO3), solid soln. with barium oxide, calcium oxide and strontium oxide, lead and manganese-doped		102110-26-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead ores, concs., leached		102110-48-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Residues, precious metal refining cementation		102110-50-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slimes and Sludges, battery scrap, antimony- and lead-rich		102110-60-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slimes and Sludges, copper conc. roasting off gas scrubbing, lead-mercury-selenium-contg.		102110-61-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●		●	●										●
barium calcium cesium lead samarium strontium bromide chloride fluoride iodide europium doped		199876-46-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Acetic acid, oleic acid, candellilla wax, tallow, calcium-lead complex salt		69103-03-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Plumbane dichlorodiethyl-		13231-90-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead uranate pigment		85536-79-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Leach residues, zinc ore, lead-contg.		91053-49-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slags, lead-zinc smelting		93763-87-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Flue gases, lead-zinc blast furnace		93821-47-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Slimes and Sludges, lead-zinc blast furnace, offgas wet cleaning		93821-70-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Ferrate (2-), [N,N-bis[2-(bis(carboxymethyl)amino)ethyl]glycinato (5-)]-, disodium		12565-18-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Boric acid, lead salt		12676-62-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Chromic acid lead salt with lead molybdate		12709-98-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Ethanedioic acid, lead(2+) salt (1:1), trihydrate		128226-81-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Lead hydroxide oxide (Pb2(OH)2O)		1311-11-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Carbonic acid, lead salt		13427-42-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Chloric acid, lead(2+) salt, monohydrate		13510-96-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Chromic acid (H2CrO4), lead(2+) potassium salt (2:1:2)		13845-31-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
205Pb		14119-28-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
209Pb		14119-30-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
210Pb		14255-04-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
203Pb		14687-25-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Lead and Lead compounds (as Pb)		14931-82-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
214Pb		15067-28-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
212Pb		15092-94-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
202Pb		15752-86-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Acetic acid, lead(2+) salt, monohydrate		15773-48-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
211Pb		15816-77-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Ethanedioic acid, lead salt		15843-48-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Phosphoric acid, lead salt		16040-38-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Phosphoric acid, lead(2+) salt (2:1)		16180-04-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
200Pb		16645-99-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
198Pb		16646-00-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
201Pb		17239-87-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●															
Acetic acid, lead(2+) salt, dihydrate		22723-52-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●															
199Pb		27486-00-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●															
Plumbane, tetrahydroxy-		29491-37-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●															
Sulfuric acid, lead(2+) lead(4+) salt (3:1:1)		35830-81-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●															
Triethyllead acetate		2587-81-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
lead(II) perchlorate trihydrate		13453-62-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Lead, triphenyl(phenylthio)- (7CI)		15590-77-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Plumbane, acetoxytripropyl-		13266-07-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
triethylplumbanecarbonitrile		13732-17-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
1,3-Benzenediol, 2-nitro-, lead salt, basic		68411-33-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														
Frits, chemicals		65997-18-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Oils, menhaden, lead salts		68424-76-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Hexanoic acid, dimethyl-, lead(2+) salt, basic		68442-95-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Hexanoic acid, 2-ethyl-, lead(2+) salt, basic		68515-76-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Hexanoic acid, 3,5,5-trimethyl-, lead(2+) salt, basic		68515-77-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Linseed oil, lead manganese salt		68553-17-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Oils, fish, lead salts		68553-63-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Spinels, boron calcium lead silicon white		68555-05-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Spinels, lead silicon tin zinc white		68555-07-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Zinc sulfide (ZnS), copper and lead-doped		68585-90-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Octanoic acid, branched, lead salts, basic		68604-56-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Fatty acids, tallow, hydrogenated, lead salts		68605-98-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Tungstate (WO42-), calcium (1:1), (T-4)-, lead-doped		68784-53-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Silicic acid (H6Si2O7), barium magnesium strontium salt, lead-doped		68784-74-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Acetic acid, reaction products with lead oxide (PbO), silica and sulfuric acid		68937-05-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Flue dust, lead-tin alloy-manufg.		69012-60-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Flue dust, zinc-refining		69012-63-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Leach residues, zinc ore-calcine, zinc cobalt		69012-72-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Dore		69029-47-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Slags, lead reveratory smelting		69029-58-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Zinc, desilverizing skims		69029-60-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Bismuth, refinery lead chloride residues		69029-61-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Leach residues, precious metal recovery lead refining		69029-72-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Calclines, lead ore conc.		69029-74-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Residues, lead roaster		69029-78-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Residues, lead smelting		69029-79-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Residues, precious metal recovery lead refining		69029-80-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slags, lead smelting		69029-84-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slags, precious metal recovery lead refining		69029-85-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slags, tellurium		69029-86-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													
Slimes and Sludges, lead refining		69029-93-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●													

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Matte, lead		84195-51-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Slimes and Sludges, lead, electrolytic		84195-60-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Speiss, lead		84195-61-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Lead chloride silicate		39390-00-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Resin acids and Rosin acids, lead salts		9008-26-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use (The expiry date of exemptions will be determined in the future) Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000				●														
Mercury and its compounds, all members	水銀およびその化合物、全て					●																	
(2',7'-Dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxymercury	(2',7'-ジブロモ-3',6'-ジヒドロキシ-3-オキソスピロ[イソベンゾフラン-1(3H),9'-[9H]キサンテン]-4'-イル)ヒドロキシ水銀	55728-51-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cadmium mercury telluride ((Cd,Hg)Te)	7種化合物の水銀	29870-72-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●		
(2-Carboxy-m-tolyl)hydroxymercury, monosodium salt	2-(トールメチルオキシ)水銀(II)-6-安息香酸ナトリウム	52795-88-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(2-Carboxyphenyl)hydroxymercury	2-カルボキシフェニル水銀(II)	14066-61-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Acetato-O)ethylmercury	酢酸エチル水銀(II)	109-62-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Acetato-O)methylmercury	酢酸メチル水銀(II)	108-07-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Bromodichloromethyl)phenylmercury	7-ブロモジクロロメチルフェニル水銀(II)	3294-58-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Dihydroxyphenyl)phenylmercury	2,4-ジヒドロキシフェニルフェニル水銀	27360-58-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Lactato-O1,O2)mercury	(乳酸-O1,O2)水銀	18918-06-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Maleoyldioxy)bis[phenylmercury]	(マレイルオキシ)ビスフェニル水銀(II)	2701-61-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Metaborato-O)phenylmercury	メタボロ酸フェニル水銀(II)	31224-71-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
(Phenylmercurio)urea	(フェニルメルクリオ)尿素	2279-64-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
[(2-Hydroxyethyl)amino]phenylmercury acetate	2-(ヒドロキシエチルアミノ)フェニル水銀酢酸	61792-06-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
[.mu.-[(Oxydiethylene but-2-enedioato)(2-)]diphenylmercury	[μ-[[4,4'-(オキシエチレン)ブタ-2-エネジオート(2-)]ジフェニル水銀	94070-92-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
[.mu.-[[4,4'-(Oxydiethylene) bis(dodeceny succinato)](2-)]diphenylmercury	[μ-[[4,4'-(オキシエチレン)ビス(ドデセンシユクシナート)](2-)]ジフェニル水銀	93882-20-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
[.mu.-[Metasilicato(2-)-O:O]]bis(2-methoxyethyl)dimercury	[μ-[[メタシイカト(2-)-O:O]]ビス(2-メトキシエチル)水銀	19367-79-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
[.mu.-[Orthoborato(2-)-O:O]]diphenylmercury	[μ-[[オर्थオボラト(2-)-O:O]]ジフェニル水銀	6273-99-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
[2,2',2"-Nitrilotri(ethanol)-N,O,O']phenylmercury lactate	[2,2',2"-ニトリロトリエタノール)-N,O,O']フェニル水銀乳酸	23319-66-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
[2-Ethylhexyl hydrogen maleato-O']phenylmercury	2-エチルヘキシル水素マレイル酸-O'フェニル水銀	27605-30-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
[Benzoato(2-)-C2,O1]mercury	[安息香酸(2-)-C2,O1]水銀	5722-59-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
[Naphthoato(1-)-O]phenylmercury	[ナフソアト(1-)-O]フェニル水銀	31632-68-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
2-(Ethylmercuriothio)benzoic acid	エチル水銀チオベンゾイル酸	148-61-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
2-Ethoxyethylmercury acetate	(2-エトキシエチル)水銀(II)アセテート	124-08-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
2-Ethoxyethylmercury chloride	2-エトキシエチル水銀(II)クロライド	124-01-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
2-Hydroxy-5-(1,1,3,3-tetramethylbutyl)phenylmercury acetate	2-ヒドロキシ-5-(1,1,3,3-テトラメチルブチル)フェニル水銀酢酸	584-18-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Methoxyethylmercury chloride	塩化メチルエチル水銀	123-88-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
6-Methyl-3-nitrobenzoxamercurate	ニトロベンゾキソアメルケート	133-58-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Barium tetraiodomercurate	四ヨウ化水銀酸バリウム	10048-99-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bis(5-oxo-DL-prolinato-N1,O2)mercury	ビス(5-オキソ-DL-プロリナト-N1,O2)水銀	94276-38-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bis(5-oxo-L-prolinato-N1,O2)mercury	ビス(5-オキソ-L-プロリナト-N1,O2)水銀	94481-62-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bis(acetato-O)[.mu.-[1,3-dioxane-2,5- diy]bis(methylene)-c:c',O,O']]dimercury	ビス(酢酸-O)[.μ-[1,3-ジオキサン-2,5- ジイ]ビス(メチレン)-c:c',O,O']]二水銀	84029-43-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bis(lactato-O1,O2)mercury	乳酸-O1,O2)水銀	18917-83-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bis(trichloromethyl)mercury	ビス(トリクロロメチル)水銀	6795-81-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bis[(+)-lactato]mercury	ビス[(+)-乳酸]水銀	33724-17-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bis[(trimethylsilyl)methyl]mercury	ビス(トリメチルシリルメチル)水銀	13294-23-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bromo(2-hydroxypropyl)mercury	ブロモ(2-ヒドロキシプロピル)水銀(Ⅱ)	18832-83-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bromoethylmercury	臭化エチル第二水銀	107-26-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Bromomethylmercury	臭化メチル水銀(Ⅱ)	506-83-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Bromophenylmercury	ブロムフェニル水銀(Ⅱ)	1192-89-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Chlormerodrin	クロメルロドリン	62-37-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Chloro(hydroxyphenyl)mercury	クロロヒドロキシフェニル水銀	1320-80-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Chloro(o-hydroxyphenyl)mercury	クロロ(オ-ヒドロキシフェニル)水銀(Ⅱ)	90-03-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Chloro[p-[(2-hydroxy-1-naphthyl)azo]phenyl]mercury	クロロ[p-[(2-ヒドロキシ-1-ナフチル)アゾ]フェニル]水銀(Ⅱ)	3076-91-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Chloro-2-thienylmercury	クロロ-2-チエニル水銀(Ⅱ)	5857-39-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Chloro-m-tolylmercury	(3-メチルフェニル)クロロ水銀(Ⅱ)	5955-19-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Chloro-o-tolylmercury	(2-メチルフェニル)クロロ水銀(Ⅱ)	2777-37-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Cobaltate(2-), tetrakis(thiocyanato-N)-, mercury(2+) (1:1), (T-4)-	テトラチオシアナトコバルト(Ⅱ)水銀(Ⅱ)	27685-51-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Cyclohexanebutanoic acid, mercury(2+) salt	水銀(Ⅱ)シクロヘキサンブタン酸塩	62638-02-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Diammonium tetrachloromercurate	テトラクロロ水銀二アンモニウム	33445-15-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Diethylmercury	ジエチル水銀	627-44-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Dihydrogen [orthoborato(3-)- O]phenylmercurate(2-)	ホウ酸フェニル水銀(Ⅱ)	102-98-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Diiodo(5-iodopyridin-2-amine-N1)mercury	二ヨ化(5-ヨ化ピリジン-2-アミノ-N1)水銀	93820-20-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Dimercury amidatenitrate	硝酸二水銀アミト	1310-88-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Dimercury difluoride	二フ化水銀(Ⅰ) (HG2F2)	13967-25-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Dimercury diiodide	二ヨ化二水銀(Ⅰ)	15385-57-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Dimercury(Ⅰ) oxalate	シュウ酸二水銀(Ⅰ)	2949-11-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Dimethyl[.mu.-[sulphato(2-)- O:O']]dimercury	硫酸ビス(メチル)水銀(Ⅱ)	3810-81-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Dimethylmercury	ジメチル水銀	593-74-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Di-o-tolylmercury	ジ(2-メチルフェニル)水銀(Ⅱ)	616-99-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Diphenyl[.mu.- [(tetrapropenyl)succinato(2-)- O:O']]dimercury	[μ-[(テトラプロペン)スルコ]ジヨウ酸(2-)-O:O']]ジフェニル水銀	27236-65-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Diphenylmercury	ジフェニル水銀(Ⅱ)	587-85-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Disodium tetra(cyano-C)mercurate(2-)	テトラシアノ水銀(2-)二ナトリウム	15682-88-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Disuccinimidomercury	ジサクシニミド水銀	584-43-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Ethylidomercury	エチル第二水銀	2440-42-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Ethylmercuric chloride	塩化エチル水銀(Ⅱ)	107-27-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Ethylmercuric phosphate	エチル水銀(Ⅱ)リン酸塩	2235-25-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Fluorescein mercuric acetate	フルロセイン酢酸水銀(Ⅱ)	3570-80-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Hexanoic acid, 2-ethyl-, mercury(2+) salt	2-エチルヘキソ酸水銀(Ⅱ)	13170-76-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Hydrargaphen	ヒドロキシル水銀	14235-86-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Hydrogen [metasilicato(2-)-O](2-methoxyethyl)mercurate(1-)	[メタケイ酸(2-)-O] 2-メトキシエチル水銀水素	64491-92-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Hydrogen .mu.-hydroxy[.mu.-[orthoborato(3-)-O:O]]diphenyldimercurate(1-)	μ-ヒドロキシ[μ-[オルトボロ(3-)-O:O]]ジフェニル二水銀(1-)水素	94277-53-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Hydrogen [3-[(.alpha.-carboxylato-o-anisoyl)amino]-2-hydroxypropyl]hydroxymmercurate(1-)	[3-[(α-カルボキシルオアニソイル)アミノ]-2-ヒドロキシプロピル]ヒドロキシル水銀(1-)水素	26552-50-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	
Iodomethylmercury	ヨードメチル水銀(Ⅱ)	143-36-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●			●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Lactatophenylmercury	ラクトフェニル水銀(II)2-ヒドロキシベンゾイル	122-64-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Meralein sodium	メレイン	4386-35-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercaptomerin sodium	メルカプトメリン	21259-76-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercuderamide	メルケラミド	525-30-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercurate(1-), (4- carboxylatophenyl)chloro-, hydrogen	p-加水安息香酸第二水銀	59-85-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercurate(1-), (4- carboxylatophenyl)hydroxy-, sodium	4-(ヒドロキシ水銀)安息香酸ナトリウム塩	138-85-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercurate(1-), triiodo-, hydrogen, compound with 3-methyl-2(3H)- benzothiazolimine (1:1)	三碘化水銀酸(1-)水素ト3-メチル-2(3H)-ベンゾチアゾリミンの混合物(1:1)	72379-35-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercurate(2-), tetrachloro-, dipotassium, (T-4)-	2カリウム・テトラクロロメルカト(II)	20582-71-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercurate(2-), tetraiodo-, (T-4)-, dihydrogen, compound with 5-iodo-2- pyridinamine (1:2)	四碘化水銀(2-) 二水素、5-ヨド素-2-ピリジンミン混合物(1:2)	63325-16-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercurate(2-), tetraiodo-, dicopper(1+), (T-4)-	四碘化銅水銀(II)	13876-85-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercuric acetate	酢酸水銀(II)	1600-27-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercuric arsenate	ヒ酸第二水銀(HgAsHO4)	7784-37-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Mercuric benzoate	安息香酸水銀	583-15-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
Mercuric bromide	臭化水銀(Ⅱ)	7789-47-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
Mercuric chloride	塩化第二水銀	7487-94-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●		●		●										●	
Mercuric cyanide	シアン化水銀(Ⅱ)	592-04-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
Mercuric iodide	ヨ化水銀(Ⅱ)	7774-29-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
Mercuric nitrate	硝酸水銀(Ⅱ)	10045-94-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●		●		●										●	
Mercuric oxide	酸化水銀(Ⅱ)	21908-53-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●		●		●			●							●	
Mercuric oxycyanide	二(シアン)酸化第二水銀(Ⅱ)	1335-31-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
Mercuric potassium cyanide	シアン化水銀(Ⅱ)酸カリウム	591-89-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
Mercuric subsulfate	亜硫酸水銀	1312-03-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	
Mercuric sulfate	硫酸水銀(Ⅱ)	7783-35-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●		●		●										●	
Mercuric thiocyanate	チオシアン酸水銀(Ⅱ)	592-85-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Mercurobutol	メチルブチル	498-73-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●		
Mercurous acetate	酢酸第一水銀	631-60-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercurous azide	アジド水銀	38232-63-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercurous chloride	塩化第一水銀(HgCl)	7546-30-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercurous iodide	ヨウ化水銀(Ⅰ)	7783-30-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercurous nitrate	硝酸第一水銀(Ⅰ)	10415-75-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercurous oxide	酸化第一水銀(黒色)	15829-53-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercurous sulfate	硫酸第二水銀(Ⅰ)	7783-36-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury	水銀	7439-97-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●		●		●	●										●	●
Mercury, bromo[1-(methoxyphenylmethyl)-2-oxo-2-[[1,7,7-trimethylbicyclo[2.2.1]hept-2-yl]oxy]ethyl]-		5326-00-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury (I) chromate	クロム酸水銀	13465-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury (I) nitrate	硝酸第一水銀(Ⅰ)二水和物	14836-60-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Mercury (II) chromate	加酸水銀(Ⅱ)	13444-75-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury (II) nitrate, monohydrate	硝酸水銀(Ⅱ)一水和物	7783-34-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury acetate	酢酸鉛	592-63-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury acetylide	アセチレン水銀	68833-55-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury ammonium chloride	アモニウム塩化水銀(Ⅱ)	10124-48-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury bis(4-chlorobenzoate)	4-クロロ安息香酸水銀(Ⅱ)	15516-76-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury bis(trifluoroacetate)	トリフルオロ酢酸水銀(Ⅱ)	13257-51-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury bromide (Hg2Br2)	二臭化二水銀(Ⅰ)	15385-58-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury bromide (HgBr)	臭化第一水銀	10031-18-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury chloride	塩化第一水銀(Hg2Cl2)	10112-91-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury dichromate	二加酸第二水銀	7789-10-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury diiodate	ヨウ素酸水銀	7783-32-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Mercury dipotassium tetrathiocyanate	四チオアツ酸二カリウム水銀	14099-12-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury disilver tetraiodide	ヨウ化銀水銀(Ⅱ)	7784-03-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury distearate, pure	ステアリン酸水銀	645-99-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury fluoride	フッ化水銀(Ⅰ)	27575-47-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury fluoride (HgF2)	フッ化水銀(Ⅱ)	7783-39-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury gluconate	グルコン酸水銀	63937-14-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury nitride	窒化水銀	12136-15-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury oleate	オレイン酸第二水銀	1191-80-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury salicylate	サリチル酸水銀	5970-32-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury selenide (HgSe)	セレン化水銀(Ⅱ)	20601-83-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury silver iodide	ヨウ化銀水銀	12344-40-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury succinate	ジカルボン酸水銀(Ⅱ)	589-65-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Mercury sulfide (HgS)	硫化水銀(Ⅱ)	1344-48-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●			●	●									●	
Mercury telluride (HgTe)	碲化水銀(Ⅱ)	12068-90-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury thallium dinitrate	硝酸・水銀(Ⅰ)・列カ(Ⅰ)	94022-47-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(1+) bromate	臭素酸第一水銀	13465-33-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(1+) ethyl sulphate	硫酸エチル水銀(Ⅰ)	71720-55-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(1+) trifluoroacetate	トリフルオロ酢酸水銀(Ⅰ)	2923-15-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(1+), amminephenyl-, acetate	フェニルアミン水銀(Ⅱ)・酢酸	22450-90-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(2+) (9Z,12Z)-octadeca-9,12- dienoate	トリスノール水銀(Ⅱ)	7756-49-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(2+) chloroacetate	クロロ酢酸水銀(Ⅱ)	26719-07-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(2+), bis(2,4,6-tri-2-pyridinyl- 1,3,5-triazine-N1,N2,N6)-, (OC-6-1'2)-	ビス(2,4,6-トリピリジン-2-イル)-1,3,5-トリアジン-N1,N2,N6)水銀(Ⅱ)	53010-52-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(II) oxalate	シュウ酸水銀(Ⅱ)	3444-13-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Mercury(II) potassium iodide	ヨウ化カリウム水銀(Ⅱ)	7783-33-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Mercury, (2-ethylhexanoato-O)(1-methoxycyclohexyl)-	水銀(2-エチルヘキソ酸)(0-メチシクロヘキシル)	103332-13-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (1-methoxycyclohexyl)(neodecanoato-O)-	(1-メチシクロヘキシル)(ネデカンイート)-水銀	103369-15-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (1-methoxyethyl)(9-octadecenoato-O)-,	1-メチエチル(9-オクタデセンイート)-水銀	104325-07-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (1-methoxycyclohexyl)(9-octadecenoato-O)-,	水(1-メチシクロヘキシル)(9-オクタデセンイート)-水銀	104325-08-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (1-methoxyethyl)(neodecanoato-O)-	(1-メチエチル)(ネデカンイート)-水銀	104335-53-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (2-ethylhexanoato-O)(1-methoxyethyl)	(2-エチルヘキソ酸)(0-メチエチル)水銀	104339-46-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxy-, disodium salt	2,7-ジブロモ-3,6-ジヒドロキシ-3-オキソスピロ[イソベンゾフラン-1(3H),9'-[9H]キサンテン]-4'-イル)ヒドロキシ水銀	129-16-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (2-ethylhexanoato-O)phenyl-		13302-00-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (9-octadecenoato-O)phenyl-, (Z)-	メルカプト(9-オクタデセンイート)水銀	104-60-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (acetato-O)(2-hydroxy-5-nitrophenyl)-	アセチル(2-ヒドロキシ-5-ニトロフェニル)水銀(Ⅱ)	63468-53-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (acetato-O)(4-aminophenyl)-	アセチル(4-アミノフェニル)水銀(Ⅱ)	6283-24-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (acetato-O)[3-(chloromethoxy)propyl-C,O]-	アセチル(3-(クロロメチル)プロピル)水銀(Ⅱ)	5954-14-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Mercury, (acetato-O)[4-[[4-(dimethylamino)phenyl]azo]phenyl]-	N,N-ジメチル-4'-[(アゾ)フェニル]フェニル-4-アセト	19447-62-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, (acetato-O)diaminephenyl-, (T-4)-	酢酸-O-フェニルジアミン水銀	68201-97-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, (neodecanoato-O)phenyl-	ネオデカノート-O-フェニル水銀	26545-49-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, [.mu.-[dodecylbutanedioato(2-)-O:O']]diphenyldi-	2-ドデシルブタンジオート(2-)-O:O']ジフェニル	24806-32-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, [2,5-dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dionato(2-)-O1,O6]-	2,5-ジクロロ-3,6-ジヒドロキ-2,5-シクロヘキサジエン-1,4-ジオート(2-)-O1,O6]	33770-60-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, bis(4-methylphenyl)-	ビス(4-メチルフェニル)水銀(Ⅱ)	537-64-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, bis(acetato-O)(benzenamine)-	ビス(酢酸-O-フェニル)水銀	63549-47-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, bis(phenyldiazene-carbothioic acid 2-phenylhydrazidato-N2,S)-, (T-4)-	ビス(フェニルジアゼンカルボチオ酸2-フェニルヒドРАЗィド-N2,S)水銀	14783-59-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, chloro(2-hydroxy-5-nitrophenyl)-	クロロ(2-ヒドロキ-5-ニトロフェニル)水銀(Ⅱ)カドミウム	24579-90-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, chloro(4-hydroxyphenyl)-	クロロ(4-ヒドロキフェニル)水銀(Ⅱ)	623-07-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, chloro(4-methylphenyl)-	クロロ(4-メチルフェニル)水銀(Ⅱ)カドミウム	539-43-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	
Mercury, chloro(ethanethiolato)-	クロロ(エタニオール)水銀(Ⅱ)	1785-43-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Mercury, chloro[2-(2-cyclohexen-1-yl)-3-benzofuranyl]-	加00[ 2-(2-シカハセ-1-ル)-3-ベンゾフルラン] 水銀	90584-88-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, chloro[p-(2,4-dinitroanilino)phenyl]-	{4-((2,4-ジニトロアニリン)フェニル)メチル}水銀(Ⅱ)化合物	15785-93-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, compound with sodium (2:1)	水銀ナトリウム化合物(2:1)	12055-37-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, compound with sodium (4:1)	水銀ナトリウム化合物(4:1)	57363-77-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, compound with titanium (1:3)	チタン鉛1:3化合物	11083-41-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, dibutyl-	ジブチル水銀	629-35-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, iodo(iodomethyl)-	ヨ化(ヨメチル)水銀	141-51-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, methyl(8-quinolinolato-N1,O8)-	メチル(8-キノリノール-N1,O8)水銀	86-85-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, phenyl(phenyldiazene-carbothioic acid 2-phenylhydrazidato)-	フェニル(フェニルジアゼンカルボチオ酸 2-フェニルヒドrazilidato) 水銀	56724-82-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, phenyl(propanoato-O)-	メチル-157	103-27-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercury, phenyl(trichloromethyl)-	{トリクロロメチル}フェニル水銀(Ⅱ)	3294-57-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●	
Mercurymethylchloride	メチルメチルクロライド	115-09-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●						●			●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Mersalyl	メサルリル	492-18-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●		
Mersalyl acid	メサルリル酸	486-67-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Methoxyethylmercuric acetate	(メトキシ)2-メチルヒドロキシ水銀(Ⅱ)	151-38-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Methyl mercury dicyandiamide	3-シアノグアニジンメチル水銀	502-39-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Methyl(pentachlorophenolato)mercury	メチル水銀(Ⅱ)ペンタクロロフェノレート	5902-76-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●	●				●					●	
Methylmercury	メチル水銀	22967-92-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Methylmercury benzoate	メチル水銀(Ⅱ)ベンゾエート	3626-13-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Methylmercury hydroxide	水酸化メチル水銀(Ⅱ)	1184-57-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
N-(Ethylmercuric)-p-toluenesulphonanilide	エチル((4-メチルフェニル)スルホニル)アミノ水銀(Ⅱ)	517-16-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Naphthenic acids, mercury salts	ナフテン酸水銀の塩	1336-96-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Nitric acid, mercury(2+) salt, hemihydrate	硝酸水銀(Ⅱ)半水物	13465-31-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Otimerate sodium	オチマーテナトリウム	16509-11-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Perchloric acid, mercury(2+) salt	過塩素酸第二水銀	7616-83-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●	●	●			●	●									●	
Phenyl(quinolin-8-olato-N1,O8)mercury	キノリン-8-ルイネン酸フェニル水銀	14354-56-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenyl(tribromomethyl)mercury	トリブロモメチルフェニル水銀(Ⅱ)	3294-60-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercuric acetate	アセトフェニル水銀(Ⅱ)	62-38-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercuric hydroxide	水酸化フェニル水銀	100-57-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercuric nitrate	硝酸フェニル第二水銀	55-68-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercury benzoate	安息香酸フェニル水銀(Ⅱ)	94-43-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercury chloride	塩化フェニル水銀	100-56-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercury dimethyldithiocarbamate	ジメチルジチオカルバミン酸フェニル水銀(Ⅱ)	32407-99-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercury hydroxide--phenylmercury nitrate	塩基性硝酸フェニル第二水銀	8003-05-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercury salicylate	フェニル水銀(Ⅱ)2-ヒドロキシベンゾエート	28086-13-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	
Phenylmercury stearate	ステアリン酸フェニル水銀(Ⅱ)	104-59-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●		●			●	●									●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Phosphoric acid, mercury salt	リン酸水銀(Ⅱ)(H3PO4.xHg)	10451-12-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●									●		
Potassium triiodomercurate(1-)	三ヨ化水銀(1-カリウム)	22330-18-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Sodium [3-[[[(3-carboxylatopropionamido)carbonyl]amino]-2-methoxypropyl]hydroxymercurate(1-)]	[3-[[[(3-カルボキシルプロピオンアミドカルボニル)アミノ]-2-メトキシプロピル]ヒドロキシ水銀(1-)]ナトリウム	7620-30-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Sodium 4-chloromercuriobenzoate	p-(4クロロベンゾイル)安息香酸ナトリウム	3198-04-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Sodium o-(ethylmercurithio)benzoate	チチメル	54-64-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Sodium timerfonate	チチメルナトリウムチチメル-p-スルホン酸ナトリウム	5964-24-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Tetrakis(acetato-O)[.mu.4-(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xantheno)-2',4',5',7'-tetrayl])tetramercury	チチメル(酢酸-O)[.mu.4-(3',6'-ジヒドロキシ-3-オキスピロ[イソベンゾフラン-1(3H),9'-[9H]キサンテン]-2',4',5',7'-テトライル)]四水銀	54295-90-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Trimercury biscitrate	チチメル水銀	18211-85-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Cadmium Mercury Sulfide	硫化カドミウム水銀	1345-09-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, (2-mercaptoacetamidato-O,S)methyl	(2-メルカプトアセチルアミノ)チチメル水銀	7548-26-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury-difulminate	二雷酸水銀(Ⅱ)	628-86-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	●			●		●	●										●	
Mercury, chloro(cyclohexylmethyl)-	塩化第二水銀	33631-63-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100		●		●		●	●										●	
Methanol	メタノール	67-56-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	2-メチル-1-(4-メチルチオフェニル)-2-モルホリンプロパン-1-オン	71868-10-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●											●			
4-Methylcyclohexyl-1,6-dicarboxylic acid anhydride		19438-60-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
4,4'-methylenebisphenol		620-92-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Methyloxirane		75-56-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●											●		●	
4,4'-(1-Methylpropylidene)bisphenol		77-40-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
alpha-Methylstyrene		98-83-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	
Mineral fibers (Natural or Synthetic), all members except: - Non-respirable fibers - Fibers with low biopersistence						●																
Ceramic Fibers	セラミックファイバー	142844-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●														
Calcium-Magnesium-Zirconium-Silicate Mixture	カルシウム-マグネシウム-珪酸ジルコニウム混合物(生体溶解性ファイバー-Superwool 607)	329211-92-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Aluminium Chloride, Basic reaction products with Silica		675106-31-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Miristalkonium chloride;	ミリスチルコニウム塩化物	139-08-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Molybdenum trioxide		1313-27-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	
Monomethyldibromodiphenylmethane	モノメチルジブロモジフェニルメタン(DBBT)	99688-47-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●	●														
Monomethyldichlorodiphenylmethane	モノメチルジクロロジフェニルメタン	81161-70-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Monomethyltetrachlorodiphenylmethane	モノメチルテトラクロロジフェニルメタン	76253-60-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●	●														
Naphthalenedisulfonic acid, dinonyl-		60223-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)		57855-77-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Naphthalenesulfonic acid, dinonyl-		25322-17-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2-Naphthylamine and its salts, all members	2-ナフチルアミンおよびその塩類、全て					●																
2-Naphthylamine	2-ナフチルアミン	91-59-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●	●	●							●				●		●	
2-Naphthylammoniumacetat		553-00-4	Prohibited	Textile products other than clothing that come into contact with human skin	Textile products other than clothing that come into contact with human skin. 30	●		●											●			
N-1-naphthylaniline		90-30-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Nickel and its compounds, all members	ニッケルおよびその化合物、全て					●																
(2-Ethylhexanoato-O)(isodecanoato-O)nickel	(2-エチルヘキサノエート-O)(イソデカノエート-O)ニッケル	84852-39-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●											●		●	
(2-Ethylhexanoato-O)(isononanoato-O)nickel	(2-エチルヘキサノエート-O)(イソノナノエート-O)ニッケル	85508-45-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●											●		●	
(2-Ethylhexanoato-O)(isooctanoato-O)nickel	(2-エチルヘキサノエート-O)(イソオクタノエート-O)ニッケル	84852-38-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●											●		●	
(2-Ethylhexanoato-O)(neodecanoato-O)nickel	(2-エチルヘキサノエート-O)(ネオデカノエート-O)ニッケル	85135-77-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●											●		●	
(Isodecanoato-O)(isononanoato-O)nickel	(イソデカノエート-O)(イソノナノエート-O)ニッケル	84852-36-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●											●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
(Isodecanoato-O)(isooctanoato-O)nickel	(イソデカノ酸-O)(イソオクタノ酸-O)ニッケル	85166-19-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●		
(Isodecanoato-O)(neodecanoato-O)nickel	(イソデカノ酸-O)(ネオデカノ酸-O)ニッケル	85508-42-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
(Isononanoato-O)(isooctanoato-O)nickel	(イソノナノ酸-O)(イソオクタノ酸-O)ニッケル	85508-46-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●		●	
(Isononanoato-O)(neodecanoato-O)nickel	(イソノナノ酸-O)(ネオデカノ酸-O)ニッケル	85551-28-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●		●	
(Isooctanoato-O)(neodecanoato-O)nickel	(イソオクタノ酸-O)(ネオデカノ酸-O)ニッケル	84852-35-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●		●	
(Neononanoato-O)(neoundecanoato-O)nickel	(ネオノナノ酸-O)(ネオウンデカノ酸-O)ニッケル	93920-08-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
[.mu.-[1,1',1'',1''']-[Benzene-1,2,4,5-tetrayltrakis(nitromethylidene)]naphth-2-olato][4-)]dinickel	[μ-[1,1',1'',1''']-[ベンゼン-1,2,4,5-テトラメチルイデン]ナフタレン-2-olato][4-)]ニッケル	22484-07-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
[.mu.-[Carbonato(2-O:O')]dihydroxydinickel	μ-[炭酸(2-O, O')二水酸化ニッケル]	65405-96-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●		●	
[[2,2'-(4,8-Dichlorobenzo[1,2-d:4,5-d']bisoxazole-2,6-diy)]bis[4,6-dichlorophenolato]](2-)]nickel	[[2,2'-(4,8-ジクロロベンゾ[1,2-d:4,5-d']ビスオキサゾール-2,6-ジイル)ビス[4,6-ジクロロフェノolato]](2-)]ニッケル	47726-62-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
[[2,2'-Thiobis[3-octylphenolato]](2-O,O',S)]nickel	[[2,2'-チオビス[3-オクチルフェノolato]](2-O,O',S)]ニッケル	33882-09-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
[[[N,N',N'',N''']-[29H,31H-Phthalocyaninetetrayltrakis(sulphonylimino-3,1-phenylene)]tetrakis[3-oxobutyramidato]](2-N29,N30,N31,N32)]nickel	[[[N,N',N'',N''']-[29H,31H-フタロシアニンテトラキス(スルホニイミノ-3,1-フェニレン)]テトラキス[3-オキsobutyramidato]](2-N29,N30,N31,N32)]ニッケル	97404-22-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
[[[N,N',N''']-[29H,31H-Phthalocyaninetriyltris(sulphonylimino-3,1-phenylene)]tris[3-oxobutyramidato]](2-N29,N30,N31,N32)]nickel	[[[N,N',N''']-[29H,31H-フタロシアニンテトラキス(スルホニイミノ-3,1-フェニレン)]トリキス[3-オキsobutyramidato]](2-N29,N30,N31,N32)]ニッケル	97404-21-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ammonium nickel(2+) salt (2:2:1)	1,2,3-プロパントリカルボキシル酸, 2-ヒドロキシ-, アンモニウムニッケル(II)(2:2:1)	68025-13-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
1,2,3-Propanetriol, 1-(dihydrogen phosphate), nickel(2+) salt (1:1)	1,2,3-プロパントリオール, 1-(二リン酸水素), ニッケル(II)	68391-37-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
1,2,3-Propanetriol, mono(dihydrogen phosphate), nickel(2+) salt (1:1)	(二リン酸水素), 1,2,3-プロパントリオールニッケル(II)塩(1:1)	67952-69-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, nickel(2+) salt (1:1)	1,2-ベンゼンジカルボキシル酸, 3,4,5,6-テトラブロム-, ニッケル(II)塩(1:1)	18824-79-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Benzidine, Ni(2+) salt	ベンジジン, Ni(2+)塩	67632-50-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
2,7-Naphthalenedisulfonic acid, nickel(2+) salt (1:1)	2,7-ナフタレンジルスルホン酸ニッケル(II)	72319-19-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●		●	
2-Ethylhexanoic acid, nickel salt	2-エチルヘキサノ酸ニッケル	7580-31-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Acetic acid, nickel(2+) salt, polymer with formaldehyde and 4-(1,1,3,3-tetramethylbutyl)phenol	酢酸ニッケル(II)塩(1:1)と4-(1,1,3,3-テトラメチルブチル)フェノールによる重合体中の酢酸ニッケル(2+)塩	71050-57-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Aluminum boron cobalt lithium nickel oxide		207803-51-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Aluminum cobalt lithium nickel oxide		193214-24-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Aluminum nickel oxide (Al2NiO4)	酸化アルミニウム-酸化ニッケル化合物(Al2NiO4)	12004-35-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●		●	
Aluminum, compound with nickel (1:1)	アルミニウムニッケル(1:1)	12003-78-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Aluminum, triethyl-, reaction products with nickel(2+) bis(2-ethylhexanoate)	トリエチルアルミニウム(II)による反応生成物であるトリエチルアルミニウム	79357-65-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Antimony oxide (Sb2O3), solid solution with nickel oxide (NiO) and titanium oxide (TiO2)	酸化アンチモン(Sb2O3)と酸化ニッケル(NiO)と酸化チタン(TiO2)の固溶体中の酸化アンチモン	73892-02-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Antimony, compound with nickel (1:1)	アンチモンニッケル(1:1)	12035-52-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Antimony, compound with nickel (1:3)	アンチモンニッケル(1:3)	12503-49-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●		
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	ビス(3,5-ビス(1,1-ジメチルエチル)-4-ヒドロキシプロパノイル)ニッケル(II)	55868-93-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	ビス(3,5-ビス(1,1-ジメチルエチル)-4-ヒドロキシ安息香酸)ニッケル(II)	52625-25-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●								●					●	
Bis(1,1,1,5,5,5-hexafluoropentane-2,4-dionato-O,O')nickel	ビス(1,1,1,5,5,5-ヘキサフルオロペンタ-2,4-ジオキサト-0,0')ニッケル	14949-69-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(1,5-cyclooctadiene)nickel	ビス(シクロオクタジエン)ニッケル	1295-35-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(1H-1,2,4-triazole-3-sulphonato-N2,O3)nickel	ビス(1H-1,2,4-トリアゾール-3-スルホン酸-N2,O3)ニッケル	85586-46-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(1-nitroso-2-naphtholato)nickel	ビス(1-ニトロナフタレート)ニッケル	12794-26-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')(2,2,4,4-tetramethyl-7-oxa-3,20-diazadipiro[5.1.11.2]henicosan-21-one-O21)nickel	ビス(4-ベンゾイル-2,4-ジヒドロ-5-メチル-2-フェニル-3H-ピラゾール-3-オン-0,0')(2,2,4,4-テトラメチル-7-オキサ-3,20-ジアザスピロ[5.1.11.2]ヘンシカン-21-オン-021)ニッケル	79121-51-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')nickel	ビス(4-ベンゾイル-2,4-ジヒドロ-5-メチル-2-フェニル-3H-ピラゾール-3-オン-0,0')ニッケル	69524-96-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(5-oxo-DL-prolinato-N1,O2)nickel	ビス(5-オキソ-DL-プロリン酸-N1,O2)ニッケル	85026-81-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(5-oxo-L-prolinato-N1,O2)nickel	ビス(5-オキソ-L-プロリン酸)ニッケル	70824-02-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(butanedione dioximato)nickel	ビス(ブタンジオンジキシル)ニッケル(II)	13478-93-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(D-gluconato-O1,O2)nickel	ビス(グルコン酸)ニッケル	71957-07-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●								●					●	
Bis(diethyldithiocarbamato-S,S')nickel	ビス(ジエチルジチオカルバミン酸)ニッケル	52610-81-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis(quinolin-8-olato-N1,O8)nickel	ビス(キノリン-8-olato)ニッケル	14100-15-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis[(2-hydroxyethyl)dithiocarbamato-S,S']nickel	ビス(2-ヒドロキシエチルジチオカルバミン酸-S,S')ニッケル	52486-98-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis[2-hydroxy-4-(octyloxy)benzophenonato]nickel	ビス[2-ヒドロキシ-4-(オクチロキシ)ベンゾフェノン酸]ニッケル	15843-91-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis[bis(2-hydroxyethyl)dithiocarbamato-S,S']nickel	ビス[ビス(2-ヒドロキシエチルジチオカルバミン酸-S,S')]ニッケル	52486-99-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis[di(3,5,5-trimethylhexyl)dithiocarbamato-S,S']nickel	ビス[ジ(3,5,5-トリメチルヘキシル)ジチオカルバミン酸-S,S']ニッケル	84604-95-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis[N-(2,4-dimethoxyphenyl)-2,3-bis(hydroxyimino)butyramidato-N2,N3]nickel	ビス[N-(2,4-ジメトキシフェニル)-2,3-ビス(ヒドロキシイミノ)ブチラミド-N2,N3]ニッケル	85269-39-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bis[N-(2-hydroxyethyl)-N-methylglycinato-N,O,on]nickel	ビス[N-(2-ヒドロキシエチル)-N-メチルグリシナト-N,O,on]ニッケル	76625-10-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Bismuth, compound with nickel (1:1)	ビスмутニッケル(1:1)	12688-64-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, nickel(2+) salt (2:1)	(2R,3R)-2,3-ジヒドロタラジク酸ニッケル(2:1)	67952-41-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
C.I. Reactive green 12	リアクティブグリーン12 (反応染料)	72152-45-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Cobalt lithium manganese nickel oxide		182442-95-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Cobalt lithium manganese nickel oxide		346417-97-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
[Carbonato(2-)] tetrahydroxytrinickel		12607-70-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●								●					●	
Carbonic acid, nickel salt	炭酸ニッケル	16337-84-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●											●					●	
Carbonic acid, nickel(2+) salt (2:1)	炭酸ニッケル塩(2:1)	17237-93-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Cassiterite, cobalt manganese nickel grey	スズ石(コバルトマンガンニッケルグレー)	99749-23-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														
Chromic acid (H2Cr2O7), nickel(2+) salt (1:1)	重クロム酸 (H2Cr2O7), ニッケル(2+) 塩 (1:1)	15586-38-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●							●			●	
Chromium nickel oxide (Cr2NiO4)	酸化クロムニッケル (Cr2NiO4)	12018-18-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Chloric acid, nickel(2+) salt	塩素酸ニッケル	67952-43-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Citric acid , ammonium nickel salt	クエン酸アンモニウムニッケル塩	18283-82-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Cobalt molybdenum nickel oxide (CoMo2NiO8)	酸化コバルトモリブデンニッケル(CoMo2NiO8)	68016-03-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●				
Cobalt nickel oxide (CoNiO2)	酸化コバルトニッケル(CoNiO2)	58591-45-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●				
Cobalt(2+) dinickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	ビス[2-ヒドロキシアミノ-1,2,3-トリカルボキシル]コバルト(II)ニッケル(II)	94232-44-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														
Copper(2+), bis(1,2-ethanediamine-N,N')-(SP-4-1)-tetrakis(cyano-C)nickelate(2-)(1:1)	ビス(1,2-エタレンジアミン-N,N')-(SP-4-1)-テトラキス(シアノ-C)ニッケル(2-)銅(2+)(1:1)	63427-32-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Copper, compound with lanthanum and nickel (4:1:1)	ランタン-ニッケル-銅化合物(4:1:1)	51912-52-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Cyclohexanebutanoic acid, nickel(2+) salt	シクロヘキサン酪酸ニッケル(II)	3906-55-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Diammonium tetrachloronickelate(2-)	テトラクロロニッケル酸二アンモニウム	99587-11-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Dicobalt(2+) nickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	ビス[2-ヒドロキシアミノ-1,2,3-トリカルボキシル]コバルト(II)ニッケル(II)	94232-84-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														
Diliron nickel tetraoxide	四酸化ニッケル(II)二鉄(III)	12168-54-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Diiron nickel zinc tetraoxide	四酸化二鉄ニッケル亜鉛	97435-21-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Dimethoxy[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]nickel	ジメトキシ[29H,31H-フタルシアノ酸-N29,N30,N31,N32]コバルト	83898-70-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Dimethylhexanoic acid, nickel salt	ジメチルヘキサノ酸ニッケル塩	93983-68-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Dinickel orthosilicate	ケイ酸ジニッケル(II)	13775-54-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Diphosphoric acid, nickel(2+) salt	二リン酸ニッケル(II)	19372-20-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Diphosphoric acid, nickel(2+) salt (1:2)	二リン酸ニッケル(II)塩	14448-18-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Dipotassium tetrafluoronickelate(2-)	テトラフルオロニッケル酸二カリウム	13859-60-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Dipotassium tris(cyano-c)nickelate(2-)	シアニドニッケル(II)トリカリウム	39049-81-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Dysprosium, compound with nickel (1:2)	ジプロシウムニッケル(1:2)	12175-27-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Ethyl hydrogen sulphate, nickel(2+) salt	2(エチルサルファート)ニッケル(II)	71720-48-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Fatty acids, C6-19-branched, nickel salts	分岐型脂肪酸ニッケル塩(炭素数C6-19)	91697-41-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Fatty acids, C8-18 and C18-unsaturated, nickel salts	脂肪酸ニッケル塩(炭素数8-18及び18個の不飽和物)	84776-45-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Hexaaminenickel(2+) bis[tetrafluoroborate(1-)]	ビス[テトラフルオロボレート(1-)]ヘキサミンニッケル	13877-20-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Hexanoic acid, 2-ethyl-, nickel(2+) salt	2-エチルヘキサノ酸ニッケル	4454-16-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Iron alloy, base,(Fe.Ni)(ferronickel)	鉄ニッケル合金(フェロニッケル)	11133-76-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Isononanoic acid, nickel(2+) salt	イソノナノ酸ニッケル(II)塩	84852-37-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Lanthanum, compound with nickel (1:5)	ランタン,ニッケル(1:5)	12196-72-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Leach residues, nickel-vanadium ore - Residues from basic leaching of nickel- bearing vanadium ores. Composed primarily of silica and insoluble compounds of nickel and vanadium with minor quantities of other metals, such as arsenic, lead, tin and zinc.	ニッケル・バナジウム鉱石の残渣-少量の砒素、鉛、錫、亜鉛 その他の元素を含有している矽酸主成分のようなもの	84144-92-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Lithium nickel cobalt aluminum oxide	リチウムニッケルコバルトアルミニウム酸化物	177997-13-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Lithium nickel oxide (LiNiO2)	酸化リチウムニッケル	12031-65-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Molybdenum nickel oxide	酸化ニッケルモリブデン	12673-58-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Naphthenic acids, nickel salts	ナフテン酸ニッケル塩	61788-71-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Neodecanoic acid, nickel salt	ネオデカン酸ニッケル	51818-56-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel	ニッケル	7440-02-0	Prohibited/Obser- vation	To be prohibited: substances in contact with the human body continuously for a long period of time To be controlled: substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	●	●		●												●	
Nickel [R(R*,R*)]-tartrate	(2R,3R)-2,3-ジヒドロキソタラクトン酸ニッケル(1;x)	52022-10-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickel acetate	酢酸ニッケル	14998-37-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel acetate tetrahydrate	酢酸ニッケル四水和物	6018-89-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	
Nickel acrylate	アクリル酸ニッケル	51222-18-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickel ammonium sulfate	硫酸ニッケル(Ⅱ)アンモニウム	15699-18-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel arsenide (NiAs)	一ヒ化ニッケル	27016-75-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
C.I. Pigment Yellow 157 ( Nickel barium titanium priderite)		68610-24-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel bis(benzenesulphonate)	ビス(ベンゼンスルホン酸)ニッケル	39819-65-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel bis(dihydrogen phosphate)	ビス(リン酸二水素)ニッケル	18718-11-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel bis(phosphinate)	ジホスフィン酸ニッケル	14507-36-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel bis(piperidine-1-carbodithioate)	ビス(ピペリジン-1-チオ炭酸)ニッケル	41476-75-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickel bisphosphinate	ホスフィン酸ニッケル	36026-88-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel boride	硼化ニッケル	12619-90-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●		●	
Nickel boride (Ni2B)	硼化ニッケル(Ni2B)	12007-01-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel boride (Ni3B)	硼化ニッケル(Ni3B)	12007-02-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel boride (NiB)	硼化ニッケル (NiB)	12007-00-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel bromide (NiBr2)	臭化ニッケル(Ⅱ)	13462-88-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel bromide (NiBr2), trihydrate	臭化ニッケル(Ⅱ)三水和物	7789-49-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel carbide	ニッケルカーバイド	12710-36-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel carbonate	炭酸ニッケル	3333-67-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Nickel carbonyl	ニッケルカルボニル	13463-39-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
Nickel chloride		37211-05-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●		
Nickel chromate	加ム酸ニッケル	14721-18-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●								●			●	
Nickel cyanide	シアン化ニッケル(Ⅱ)	557-19-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel diarsenide	ヒ化ニッケル;ニヒ化ニッケル	12068-61-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel dibenzoate	安息香酸ニッケル(Ⅱ)	553-71-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel dibromate	臭素酸ニッケル	14550-87-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel dihydroxide hydrate		36897-37-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel dimethyldithiocarbamate	ニッケルジメチルジチオカルバマート	15521-65-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel dipotassium bis(sulphate)	硫酸ニッケルカリウム	13842-46-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel dithiocyanate	チオシアネートニッケル(Ⅱ)	13689-92-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel fluoride (NiF2)	フッ化ニッケル(Ⅱ)	10028-18-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel fluoride (NiF2), tetrahydrate	フッ化ニッケル四水和物	13940-83-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel hydrogen phosphate	リン酸ニッケル塩	14332-34-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel hydride (NiH)		14332-32-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel hydroxide	水酸化ニッケル(混合)	11113-74-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●														●			●	
Nickel hydroxide	水酸化ニッケル(混合)	12054-48-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel hydroxide	水酸化ニッケル(混合)	12125-56-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel isooctanoate	イソオクタノ酸ニッケル	27637-46-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel methacrylate	メタクリル酸ニッケル	94275-78-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel nitrate	硝酸ニッケル	14216-75-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel nitrate (2+ salt)	硝酸ニッケル無水物	13138-45-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel nitrite	亜硝酸ニッケル	17861-62-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel oxide	酸化ニッケル	11099-02-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●														●			●	
Nickel oxide	酸化ニッケル	1313-99-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●											●			●	
Nickel oxide (Ni2O3)	酸化ニッケル(Ⅲ)	1314-06-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel oxide (NiO2)	二酸化ニッケル	12035-36-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel oxide (Ni3O4)		12137-09-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel perchlorate	過塩素酸ニッケル(Ⅱ)	13637-71-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●											●			●	
Nickel phosphide (Ni2P)	一リン化ニッケル	12035-64-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel potassium cyanide	テトラシアニドニッケル(Ⅱ)酸カリウム	14220-17-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														●	
Nickel selenate	セレン酸ニッケル(Ⅱ)	15060-62-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	
Nickel selenide	セレン化ニッケル(Ⅱ)	1314-05-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●											●			●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Nickel silicide (Ni2Si)	ニッケルイ化物(Ni2Si)	12059-14-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●		
Nickel silicide (NiSi)	ニッケルイ化物(NiSi)	12035-57-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel silicide (NiSi2)	ニッケルイ化物(NiSi2)	12201-89-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel subsulfide	二硫化三ニッケル	12035-72-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel sulfate	硫酸ニッケル	7786-81-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●													●	
Nickel sulfide (Ni2S3)	ニッケル硫化物(Ni2S3)	12259-56-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel sulfide (NiS)	硫化ニッケル(Ⅱ)	16812-54-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel telluride	テルル化ニッケル	12142-88-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel tin trioxide	酸化スズニッケル	12035-38-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel titanium oxide	酸化チタンニッケル	12035-39-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel titanium oxide	酸化チタンニッケル	12653-76-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel titanium tungsten oxide (NiTi20W2O47)	酸化ニッケルチタンタングステン(NiTi20W2O47)	69011-05-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel vanadium oxide (NiV2O6)	酸化ニッケルバナジウム(NiV2O6)	52502-12-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel zirconium oxide (NiZrO3)	酸化ニッケルジルコニウム(NiZrO3)	70692-93-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(1+), [1-(2-amino-4-imino-5(4H)-thiazolylidene)-N-[1-(2-amino-4-imino-5(4H)-thiazolylidene)-1H-isoindol-3-yl]-1H-isoindol-3-aminato]-, chloride	[1-(2-アミノ-4-イミノ-5(4H)-チアゾリリデン)-N-[1-(2-アミノ-4-イミノ-5(4H)-チアゾリリデン)-1H-イソインドール-3-イル]-1H-イソインドール-3-アミノ]-, chloride	53199-85-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) acrylate	アクリル酸ニッケル(Ⅱ)	60700-37-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) methacrylate	メタクリル酸ニッケル(Ⅱ)	52496-91-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) neodecanoate	ネオデカノ酸ニッケル(Ⅱ)	85508-44-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) neononanoate	ネオノナノ酸ニッケル(Ⅱ)	93920-10-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) neoundecanoate	ネオウンデカノ酸ニッケル(Ⅱ)	93920-09-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) oleate	オレイン酸ニッケル	13001-15-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) palmitate	パルミチン酸ニッケル(Ⅱ)	13654-40-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) selenite	セレン酸ニッケル(Ⅱ)	10101-96-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) silicate	ケイ酸ニッケル(Ⅱ)	21784-78-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) sulphite	亜硫酸ニッケル(Ⅱ)	7757-95-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+) trifluoroacetate	トリフルオロ酢酸ニッケル(Ⅱ)	16083-14-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+), bis(1,2-ethanediamine-N,N')-, bis[bis(cyano-C)aurate(1-)]	ビス(1,2-エタレンジアミン-N,N')ニッケル(2+)ビス[ビス(シアノ-C)金酸塩(1-)]	68958-89-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+), bis(1,2-ethanediamine-N,N')-, salt with dimethylbenzenesulfonic acid (1:2)	ビス(1,2-エタレンジアミン-N,N')ニッケル(2+)塩トリス(メチルベンゼンスルホン)酸(1:2)	71215-98-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+), bis(1,2-propanediamine)-, bis(dicyanoaurate(1-))	ビス(1,2-プロパレンジアミン)ニッケル(2+)ビス[ビス(シアノ)金酸塩(1-)]	18972-69-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+), bis(ethylenediamine)-, sulfate (1:1)	ビスエチレンジアミンニッケル(Ⅱ) 硫酸(1:1)	21264-77-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classifi cation	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Nickel(2+), hexakis(1H-imidazole-N3)-, (OC-6-11)-, 1,2-benzenedicarboxylate (1:1)	ニッケル(Ⅱ), ヘキサ(1H-イミダゾール-N3)-, (OC-6-11)-, 1, 2-ジベンジカルボキシ酸(1:1)	108818-89-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●		
Nickel(2+), tris(1,2-ethanediamine-N,N')-, (OC-6-11)-, salt with dimethylbenzenesulfonic acid (1:2)	トリス(1, 2-エタニジン-N,N') ニッケル(2+)塩トリス(1, 2)ジメチルベンゼンスルホン酸(1:2)	71215-97-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, bis[tetrafluoroborate(1-)]	トリス(4, 7-ジフェニル-1, 10-フェナントリン-N1,N10) ニッケル(Ⅱ)-(OC-6-11) -、ビス[テトラフルオロボレート(1-)]	68309-97-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, dinitrate	トリス(4, 7-ジフェニル-1, 10-フェナントリン-N1,N10)ニッケル(Ⅱ)二硝酸(炭素数6-11)	38780-90-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2++), hexaamine-, (OC-6-11)-, carbonate (1:1)	ヘキサミンニッケル(2+)炭酸(1:1)	67806-76-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(2++), hexaamine-, dihydroxide, (OC-6-11)-	ヘキサミンニッケル(Ⅱ)二水和物	51467-07-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(II) acetate	酢酸ニッケル(Ⅱ)	373-02-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Nickel(II) chloride	塩化ニッケル	7718-54-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●													●	
Nickel(II) chloride hexahydrate (1:2:6)	塩化ニッケル六水和物	7791-20-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●															●	
Nickel(II) fluoborate	テトラフルオロボレートニッケル(Ⅱ)	14708-14-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Nickel(II) fumarate	フマル酸ニッケル(Ⅱ)	6283-67-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel(II) iodide	ヨウ化ニッケル(Ⅱ)	13462-90-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Nickel(II) isodecanoate	イソデカノ酸ニッケル(Ⅱ)	85508-43-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Nickel(II) isooctanoate	イソオクタノ酸ニッケル(Ⅱ)	29317-63-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Nickel(II) nitrate, hexahydrate (1:2:6)	硝酸ニッケル(Ⅱ)六水和物	13478-00-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Nickel(II) sulfate hexahydrate (1:1:6)	硫酸ニッケル(Ⅱ)六水和物	10101-97-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●															●	
Nickel, (2-ethylhexanoato-O)(trifluoroacetato-O)-	(2-エチルヘキサノート-O)(トリフルオロ酢酸-O)ニッケル	70776-98-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, (2-propanol)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O,S]-	[[2,2'-チオビス[4-(1,1,3,3-テトラメチルブチル)フェノール]](2-)-O,S]ニッケル	67763-27-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, (carbonato(2-))tetrahydroxytri-, tetrahydrate	塩基性炭酸ニッケル(Ⅱ)・四水和物	39430-27-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [(2-amino-2-oxoethoxy)acetato(2-)]-	[(2-アミノ-2-オキソエトキシ)酢酸(2-)]ニッケル	68133-84-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [.mu.-(piperazine-N1:N4)]bis[3-[1-(4,5,6,7-tetrachloro-1-oxo-1H-isoindol-3-yl)hydrazono]ethyl]-2,4(1H,3H)-quinolinedionato(2-)]di-	μ-(ピペラジン-N1:N4)ビス[3-[1-(4,5,6,7-テトラクロロ-1-オキソ-1H-イソインドール-3-イル)ヒドРАЗONO]エチル]-2,4(1H,3H)-キノリノジオン(2-)]ニッケル	71889-22-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [[1,1'-[1,2-phenylenebis(nitriomethylidene)]bis[2-naphthalenolato]](2-)-N,N',O,O']-, (SP-4-2)-	[[1,1'-[1,2-フェニレンビス(ニトリオメチリデン)]ビス[2-ナフthalenolato]](2-)-N,N',O,O']ニッケル	20437-10-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [[2,2'-(methylenbis(thio))bis[acetato]](2-)]-	[[2,2'-(メチレンビス(チオ))ビス[酢酸]](2-)]ニッケル	71215-73-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [[2,2'-sulfonylbis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O1,O2]-	[2,2'-スルfonylbis[4-(1,1,3,3-テトラメチルブチル)フェノール]](2-)-O1,O2]ニッケル	16432-37-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O,O',S]-	[[2,2'-チオビス[4-(1,1,3,3-テトラメチルブチル)フェノール]](2-)-O,O',S]ニッケル	27574-34-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [1,3-dihydro-5,6-bis[[[2-hydroxy-1-naphthalenyl)methylene]amino]-2H-benzimidazol-2-onato(2-)-N5,N6,O5,O6]-, (SP-4-2)-	[1, 3-ジヒドロ-5, 6-ビス[[[2-ヒドロキシ-1-ナフthalenyl)メチレン]アミノ]-2H-ベンジミダゾール-2-オン(2-)-N5,N6,O5,O6]-ニッケル(SP-4-2)	42844-93-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p pm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	ニッケルフタロシアニン	14055-02-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonyl sulfo derivatives, sodium salts	[29H,31H-フタロシアニン酸(2-)-N29,N30,N31,N32]-, [[3-[(5-クロロ-2,6-ジフルオロ-4-ピリミジンル)アミノ]フェニル]アミノ]スルホン誘導体、ニッケルナトリウム塩	90459-35-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorosulfonyl derivatives, reaction products with 2-[(4-aminophenyl)sulfonyl]ethyl hydrogen sulfate monosodium salt, potassium sodium salts, compounds with pyridine	ピリジン合成のための2-[(4-アミノフェニル)スルホン]エチル硫酸水素ナトリウム塩、ナトリウム塩による反応生成物である[29H,31H-フタロシアニン酸(2-)-N29,N30,N31,N32] ニッケルナトリウム塩誘導体	93573-17-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [29H,31H-phthalocyanine-C,C,C,C-tetrasulfonyl tetrachloridato(2)-N29,N30,N31,N32]-	[29H,31H-フタロシアニン-C,C,C,C-テトラスルホンテトラクロリダト(Ⅱ)-N29,N30,N31,N32]ニッケル	28680-76-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [2-hydroxybenzoic acid [3-[1-cyano-2-(methylamino)-2-oxoethylidene]-2,3-dihydro-1H-isoindol-1-ylidene]hydrazidato(2-)]-	[2-ヒドロキシベンゾ酸[3-[1-シアノ-2-(メチルアミノ)-2-オキソエチリデン]-2,3-ジヒドロ-1H-イソインドール-1-イルイデン]ヒドРАЗイダト(2-)]ニッケル	85958-80-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [carbonato(2-)]hexahydroxytetra-	ヘキサヒドロキシテトラカルボン酸(2-)ニッケル	12334-31-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [N-(4-chlorophenyl)-2-[3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]methylene]hydrazino]-1H-isoindol-1-ylidene]-2-cyanoacetamidato(2-)]-	[N-(4-クロロフェニル)-2-[3-[[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]メチレン]ヒドРАЗイダト(2-)]-2-シアノアセチルアミダト(2-)]ニッケル	71889-20-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	
Nickel, [N-(carboxymethyl)glycinato(2-)-N,O,ON]-	[N-カルボキシルメチルグリシン酸(2-)-NOON]ニッケル	13869-33-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [N,N',N'',N'''-tetrakis[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C,C-tetrasulfonamidato(2-)-N29,N30,N31,N32]-	[N,N',N'',N'''-テトラキス[4-(4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル)フェニル]-29H,31H-フタロシアニン-C,C,C,C-テトラスルホンアミダト(2-)-N29,N30,N31,N32]ニッケル	72986-45-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, [N,N',N''-tris[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C-trisulfonamidato(2-)-N29,N30,N31,N32]-	[N,N',N''-トリス[4-(4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル)フェニル]-29H,31H-フタロシアニン-C,C,C-トリスルホンアミダト(2-)-N29,N30,N31,N32]ニッケル	72252-57-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, 2,2'-thiobis[4-nonylphenol] complexes	2,2'-チオビス[4-ノニルフェノール]ニッケル錯体	85480-75-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, acetate carbonate C8-10-branched fatty acids C9-11-neofatty acids complexes	酢酸カルボン酸、分岐型脂肪酸(炭素数C8-10)、分岐型新脂肪酸(炭素数C9-11)混合物中のニッケル	90459-30-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, acetylacetone 6-methyl-2,4-heptanedione complexes	アセチルアセトン、6-メチル-2,4-ヘプタジオン混合物中のニッケル	90459-34-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, aqua[2-[(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl)azo]benzoato(2-)]-	[2-[(4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル)アゾ]安息香酸(2-)]水溶性ニッケル	106316-55-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, bis(2,4-pentanedionato-O,O')-, (SP-4-1)-	ビス(2,4-ペンタネジオナト)ニッケル(Ⅱ)	3264-82-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, bis(2-heptadecyl-1H-imidazole-N3)bis(octanoato-O)-	ビス(2-ヘプタデシル-1H-イミダゾール-N3)ビス(オクタノエート)ニッケル	68912-08-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, bis(3-amino-4,5,6,7-tetrachloro-1H-isoindol-1-one oximato-N2,O1)-	ビス(3-アミノ-4,5,6,7-テトラクロロ-1H-イソインドール-1-オンオキシマト)ニッケル	70833-37-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, bis(dibutylcarbamo-dithioato-S,S')-, (SP-4-1)-	ビス(ジブチルカルバモジチオアト)ニッケル	13927-77-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, bis(diethylcarbamo-dithioato-S,S')-, (SP-4-1)-	ビス(ジエチルカルバモジチオアト)ニッケル	14267-17-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, bis(diisononylcarbamo-dithioato-S,S')-, (SP-4-1)-	ビス(ジイソノニルカルバモジチオアト)ニッケル	85298-61-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	
Nickel, bis(dipentylcarbamo-dithioato-S,S')-, (SP-4-1)-	ビス(ジペンチルカルバモジチオアト)ニッケル	36259-37-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Nickel, bis(phenyldiazene-carbothioic acid 2-phenylhydrazidato)-	ビス(フェニルジアゼンカルボチオ酸、2-フェニルヒドラーゼン)ニッケル	36545-21-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●		
Nickel, bis[(2-hydroxy-4-octylphenyl)phenylmethanonoato-O,O']-	ビス[(2-ヒドロキシ-4-オクチルフェニル)フェニルメタンオノ-オ,O']ニッケル	68189-15-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[(cyano-C)triphenylborato(1-)-N]bis(hexanedinitrile-N,N')-	ビス[(シアノ-C)トリフェニルボレート(1-)-N]ビス(ヘキサニトリル-N,N')	83864-02-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[[didecyl (1,2-dicyano-1,2-ethenediyl)bis(carbamato)](2-)]-	ビス[[ジデシル-(1,2-ジシアノ-1,2-エチンジエニル)ビス(カルバマト)](2-)]ニッケル	77245-35-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[1,2-bis(4-methoxyphenyl)-1,2-ethenedithiolato(2-)-S,S']-, (SP-4-1)-	ビス[1,2-ビス(4-メトキシフェニル)-1,2-エチンジエニル(2-)-S,S']ニッケル	38951-97-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[1,2-diphenyl-1,2-ethenedithiolato(2-)-S,S']-, (SP-4-1)-	ビス[1,2-ジフェニル-1,2-エチンジエニル(2-)-S,S']ニッケル	28984-20-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[1-[4-(diethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	ビス[1-[4-(ジエチルアミノ)フェニル]-2-フェニル-1,2-エチンジエニル(2-)-S,S']ニッケル	51449-18-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[1-[4-(dimethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	ビス[1-[4-(ジメチルアミノ)フェニル]-2-フェニル-1,2-エチンジエニル(2-)-S,S']ニッケル	38465-55-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[2,3-bis(hydroxyimino)-N-(2-methoxyphenyl)butanamidato]-	ビス[2,3-ビス(ヒドロキシイミノ)-N-(2-メトキシフェニル)ブタンアミダト]ニッケル	42739-61-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[2,3-bis(hydroxyimino)-N-phenylbutanamidato-N2,N3]-	ビス[2,3-ビス(ヒドロキシイミノ)-N-フェニルブタンアミダト-N2,N3]ニッケル	29204-84-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[2,4-dihydro-5-methyl-4-(1-oxodecyl)-2-phenyl-3H-pyrazol-3-onato-O,O']-	ビス[2,4-ジヒドロ-5-メチル-4-(1-オキソデシル)-2-フェニル-3H-ピラゾール-3-オン-オ,O']ニッケル	56557-00-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[2-butene-2,3-dithiolato(2-)-S,S']-, (SP-4-1)-	ビス[2-ブテン-2,3-ジチオラト(2-)-S,S']ニッケル	38951-94-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[3-[(4-chlorophenyl)azo]-2,4(1H,3H)-quinolinedionato]-	ビス[3-[(4-クロロフェニル)アゾ]-2,4(1H,3H)-キノリンジエニル]ニッケル	51931-46-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[bis(2-methylpropyl)carbamodithioato-S,S']-, (SP-4-1)-	ビス[ビス(2-メチルプロピル)カルバモジチオ-オ,S,S']ニッケル	15317-78-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, bis[N-hydroxy-3-(hydroxyimino)-N'-(2-methoxyphenyl)butanimidamido-N,N3]-	ビス[N-ヒドロキシ-3-(ヒドロキシイミノ)-N'-(2-メトキシフェニル)ブタンイミダミダト-N,N3]ニッケル	71605-83-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, borate C8-10-branched carboxylate complexes	硼酸、分岐型カルボン酸(炭素数C8-10)混合物中のニッケル	90459-31-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, borate neodecanoate complexes	硼酸、ネオデカノ酸混合物中のニッケル	92502-55-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, C4-10 fatty acids naphthenate complexes	脂肪酸(炭素数C4-10)、ナフテン酸混合物中のニッケル	93573-15-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, C4-10 fatty acids octanoate complexes	脂肪酸(炭素数C4-10)、オクタノ酸混合物中のニッケル	93573-16-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, C5-23-branched carboxylate C4-10 fatty acids complexes	分岐型カルボン酸(炭素数C5-23)、脂肪酸(炭素数C4-10)混合物中のニッケル	93762-59-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, C5-23-branched carboxylate C4-10 fatty acids naphthenate complexes	分岐型カルボン酸(炭素数C5-23)、脂肪酸(炭素数C4-10)、ナフテン酸混合物中のニッケル	93573-14-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, C5-23-branched carboxylate naphthenate complexes	分岐型カルボン酸(炭素数C5-23)、ナフテン酸混合物中のニッケル	92200-98-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, C5-25-branched carboxylate naphthenate octanoate complexes	分岐型カルボン酸(炭素数C5-25)、ナフテン酸、オクタノ酸混合物中のニッケル	92200-99-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, C5-C23-branched carboxylate octanoate complexes	分岐型カルボン酸(炭素数C5-23)、オクタノ酸混合物中のニッケル	90459-32-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, compound with niobium (1:1)	ニッケル-ニオブ化合物(1:1)	12034-55-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, compound with tin (3:1)	ニッケル-スズ化合物(3:1)	12059-23-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, compound with zirconium (1:2)	ニッケル-ジルコニウム化合物(1:2)	12142-92-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, isodecanoate naphthenate complexes	イソデカノ酸ナフテン酸混合物中のニッケル	85585-97-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Nickel, isononanoate naphthenate complexes	イソノナノ酸ナフテン酸の混合物中のニッケル	85585-98-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●		
Nickel, isooctanoate naphthenate complexes	イソオクタン酸ナフテン酸混合物中のニッケル	90459-33-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, naphthenate neodecanoate complexes	ナフテン酸ネオデカン酸の混合物中のニッケル	85585-99-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, tetrakis(triphenyl phosphite-P)-, (T-4)-	テトラキストリフェニルホスフィトニッケル	14221-00-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel,[6,8,16,18-tetrachloro-1,11-bis(2-furanylmethyl)-1,10,11, 20-tetrahydrodibenzo[c,j]dipyrazolo[3,4-f:3',4'-m][1,2,5,8,9,12]hexaazacyclotetradecinato(2-)-N5,N10,N15,N20]-	[6,8,16, 18-テトラクロロ-1, 11-ビス(2-フルニルメチル)-1,10,11, 20-テトラヒドロジベンゾ[c,j]ジピラゾロ[3,4-f:3',4'-m][1,2,5,8,9,12]ヘキサアザシクロテトラデシナト(2-)-N5,N10,N15,N20]ニッケル	79745-01-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(1-), [[N,N'-1,2-ethanediybis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON]-, potassium, (OC-6-21)-	[[N,N'-1, 2-エタナジイルビス[N-(カルボキシルメチル)グリシナト]](4-)-N,N',O,O',ON,ON]-, ポタシウム, (OC-6-21)-	67906-12-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(1-), [3,4-bis[[[(2-hydroxy-1-naphthalenyl)methylene]amino]benzoato(3-)-N3,N4,O3,O4]-, hydrogen	[3, 4-ビス[[[(2-ヒドロキシ-1-ナフタレンイル)メチレン]アミノ]ベンゾアト(3-)-N3,N4,O3,O4]-, 水素	61300-98-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(1-), [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O"]-, hydrogen, (T-4)-	[N,N-ビス(カルボキシルメチル)グリシナト(3-)-N,O,O',O"]-, 水素	34831-03-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(1-), trichloro-, ammonium	トリクロロニッケル(1-)アンモニウム	24640-21-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(2-), [[N,N'-1,2-ethanediybis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON]-, dihydrogen, (OC-6-21)-	[[1,2-エタナジイルビス[N-(カルボキシルメチル)グリシナト]](4-)-N,N',O,O',ON,ON]-, 二水素	25481-21-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(3-), [22-[[[3-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(5-)-N29,N30,N31,N32]-, trisodium, (SP-4-2)-	[22-[[[3-[(5-クロロ-2, 6-ジフルオロ-4-ピリミジンイル)アミノ]フェニル]アミノ]スルfonyル]-29H,31H-フタルシアニン-1,8,15-トリスルフォナト(5-)-N29,N30,N31,N32]-, ニッケル(3-)三ナトリウム	71243-96-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(3-), [5-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-3-[(2-hydroxy-3-nitro-5-sulfonyl)azo]-2,7-naphthalenedisulfonato(5-)-], trisodium	[5-[(4, 5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル)アゾ]-4-ヒドロキシ-3-[(2-ヒドロキシ-3-ニトロ-5-スルfonyル)アゾ]-2,7-ナフタレンジスルフォナト(5-)-], ニッケル(3-)三ナトリウム	79817-91-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(3-), [C-[[[3-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]phenyl]amino]sulfonyl]-C,C,C-tris(aminosulfonyl)-29H,31H-phthalocyanine-C,C,C-trisulfonato(5-)-N29,N30,N31,N32]-, trisodium	[C-[[[3-[(4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル)アミノ]フェニル]アミノ]スルfonyル]-C,C,C-トリ(アミノスルfonyル)-29H,31H-フタルシアニン-C,C,C-トリスルフォナト(5-)-N29,N30,N31,N32]-, ニッケル(3-)三ナトリウム	72229-81-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-], triammonium, (T-4)-	[N,N-ビス(ホスホノメチル)グリシナト(5-)-], トリアモニウム, (T-4)-	68025-40-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-], tripotassium, (T-4)-	[N,N-ビス(ホスホノメチル)グリシナト(5-)-], トリポタシウム, (T-4)-	63597-34-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-], trisodium,(T-4)-	[N,N-ビス(ホスホノメチル)グリシナト(5-)-], ニッケル(3-)三ナトリウム	68025-41-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(4-), [[[[nitri]tris(methylene)]tris[phosphonato]](6-)-N,OP,OP,OP"]-, tetrapotassium, (T-4)-	[[[[ニトリ]トリ(メチレン)]トリ[ホスホナト]](6-)-N,OP,OP,OP"]-, ニッケル(4-)四ポタシウム	63588-33-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(4-), [[[[nitri]tris(methylene)]tris[phosphonato]](6-)-N,OP,OP,OP"]-, tetrasodium, (T-4)-	[[[[ニトリ]トリ(メチレン)]トリ[ホスホナト]](6-)-N,OP,OP,OP"]-, ニッケル(4-)四ナトリウム	68052-00-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(4-), [[[[nitri]tris(methylene)]tris[phosphonato]](6-)-N,OP,OP,OP"]-, triammonium hydrogen, (T-4)-	[[[[ニトリ]トリ(メチレン)]トリ[ホスホナト]](6-)-N,OP,OP,OP"]-, トリアモニウム水素, (T-4)-	67968-22-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickelate(4-), [22-[[[4-sulphophenyl]amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(6-)-N29,N30,N31,N32]-, tetrahydrogen, (SP-4-2)-	[22-[[[4-スルホフェニル]アミノ]スルfonyル]-29H,31H-フタルシアニン-1,8,15-トリスルフォナト(6-)-N29,N30,N31,N32]-, ニッケル(4-)四水素	70729-79-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Nickelate(4-), [bis[[[3-[[[4,5-dihydro-3-methyl-5-oxo-1-[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]-1H-pyrazol-4-yl]azo]phenyl]amino]sulfonyl]-29H,31H-phthalocyaninedisulfonato(6-)-N29,N30,N31,N32]-, sodium	[[[2-スルホエチル]スルホニル]フェニル]-1H-ピラゾール-4-イルアゾ]フェニル]アミノ]スルホニル]-29H,31H-フタロシアニド二スルホネート(6-)-N29,N30,N31,N32]-, ナトリウム	90459-36-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelate(6-), [4-[[5-[[[3,6-dichloro-4-pyridazinyl]carbonyl]amino]-2-sulfonyl]azo]-4,5-dihydro-5-oxo-1-[2-sulfo-5-[[[trisulfo-29H,31H-phthalocyaninyl]sulfonyl]amino]phenyl]-1H-pyrazole-3-carboxylato(8-)-N29,N30,N31,N32]-, hexasodium	[[4-[[5-[[[3,6-ジクロロ-4-ピリダジンイル]カルボニル]アミノ]-2-スルホニル]アゾ]-4,5-ジヒドロ-5-オキソ-1-[2-スルホ-5-[[[トリスルホ-29H,31H-フタロシアニド]スルホニル]アミノ]フェニル]-1H-ピラゾール-3-カルボキシルエート(8-)-N29,N30,N31,N32]-]ヘキサナトリウム	93891-86-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelate(6-), [4-[[5-[[[3,6-dichloro-4-pyridazinyl]carbonyl]amino]-2-sulfonyl]azo]-4,5-dihydro-5-oxo-1-[5-[[[trisulfo-29H,31H-phthalocyaninyl]sulfonyl]amino]-2-sulfonyl]phenyl]-1H-pyrazole-3-carboxylato(8-)-N29,N30,N31,N32]-, hexahydrogen	[[4-[[5-[[[3,6-ジクロロ-4-ピリダジンイル]カルボニル]アミノ]-2-スルホニル]アゾ]-4,5-ジヒドロ-5-オキソ-1-[5-[[[トリスルホ-29H,31H-フタロシアニド]スルホニル]アミノ]-2-スルホニル]フェニル]-1H-ピラゾール-3-カルボキシルエート(8-)-N29,N30,N31,N32]-]ヘキサ水素	68698-80-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelate(6-), [C-[[[3-[[[4,5-dihydro-3-methyl-5-oxo-1-[3-sulfo-4-[2-[2-sulfo-4-(2,5,6-trichloro-4-pyrimidinyl)amino]phenyl]ethenyl]phenyl]-1H-pyrazol-4-yl]azo]-4-sulfonyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C,C-trisulfonato(8-)-N29,N30,N31,N32]-,	[[C-[[[3-[[[4,5-ジヒドロ-3-メチル-5-オキソ-1-[3-スルホ-4-[2-[2-スルホ-4-(2,5,6-トリクロロ-4-ピリミジンイル)アミノ]フェニル]エチンイル]フェニル]-1H-ピラゾール-4-イルアゾ]-4-スルホニル]アミノ]スルホニル]-29H,31H-フタロシアニン-C,C,C-トリスルホネート(8-)-N29,N30,N31,N32]-]ヘキサナトリウム	72453-55-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelate(6-), [[1,2-ethanediy]bis[nitriobis(methylene)]]tetrakis[phosphonato]](8-)], pentammonium hydrogen,(OC-6-21)-	[[[1,2-エタンジイル]ビス[ニトリオビス(メチレン)]]テトラキス[リンホスフェネート]](8-)]ヘキサナトリウム-水素	68958-86-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelate(6-), [[1,2-ethanediy]bis[nitriobis(methylene)]]tetrakis[phosphonato]](8-)], pentapotassium hydrogen,(OC-6-21)-	[[[1,2-エタンジイル]ビス[ニトリオビス(メチレン)]]テトラキス[リンホスフェネート]](8-)]ヘキサナトリウム-水素	68958-87-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelate(6-), [[1,2-ethanediy]bis[nitriobis(methylene)]]tetrakis[phosphonato]](8-)], pentasodium hydrogen,(OC-6-21)-	[[[1,2-エタンジイル]ビス[ニトリオビス(メチレン)]]テトラキス[リンホスフェネート]](8-)]ヘキサナトリウム-水素	68958-88-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelate(8-), bis[3-[[[2-amino-8-hydroxy-6-sulfo-1-naphthalenyl]azo]-2-hydroxy-5-sulfobenzoato(5-)-]], hexasodium dihydrogen	ビス[3-[[[2-アミノ-8-ヒドロキシ-6-スルホ-1-ナフタレンイル]アゾ]-2-ヒドロキシ-5-スルホベンゾエート(5-)-]]ヘキサナトリウム二水素	72139-08-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Nickelocene	ニッケルシクロペンタジエン(II)	1271-28-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Octadecanoic acid, nickel(2+) salt	ステアリン酸ニッケル(II)	2223-95-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Octanoic acid, nickel(2+) salt	オクタノ酸ニッケル(II)塩	4995-91-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Oxalic acid, nickel salt	シュウ酸ニッケル(混合)	20543-06-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Perchloric acid, nickel(2+) salt, hexahydrate	過塩素酸ニッケル(II)六水和物	13520-61-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●												●	
Phosphonic acid, [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]-, monoethyl ester, nickel(2+) salt (2:1)	O-エチル-3,5-ジ-tert-ブチルフェニルメチルホスフィン酸(5-)ニッケル(2+)塩(2:1)	30947-30-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Phosphoric acid, calcium nickel salt	リン酸カルシウムニッケル塩	17169-61-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Phosphoric acid, nickel(2+) salt (2:3)	リン酸ニッケル	10381-36-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O']nickelate(1-)	[N,N-ビス(カルボキシルメチル)グリシン(3-)-N,O,O']ニッケル(1-)カリウム	63640-18-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Rammelsbergite (NiAs2)	砒化ニッケル(NiAs2)	1303-22-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	
Silicic acid (H2SiO3), nickel(2+) salt (4:3)	ケイ酸(H2SiO3)ニッケル(II)塩(4:3)	31748-25-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●	
Spinel, cobalt nickel zinc grey	尖晶石(コバルトニッケル亜鉛グレー)	95046-47-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●												●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Sulfamic acid, nickel(2+) salt (2:1)	スルファミン酸ニッケル	13770-89-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●		●		
Sulfuric acid, ammonium nickel(2+) salt	ヒス(硫酸)ニッケル(Ⅱ)アンモニウム六水和物	7785-20-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate	硫化カルシウムフェノールと反応した硫酸ニッケル塩	72162-32-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Sulfuric acid, nickel(2+) salt (1:1), heptahydrate	硫酸ニッケル七水和物	10101-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●															●	
Sulfuric acid, nickel(2+) salt (1:1), reaction products with nickel and nickel oxide (NiO)	ニッケルや酸化ニッケルと反応した硫酸ニッケル(Ⅱ)塩(1:1)	68585-48-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Telluric acid (H2TeO3), nickel(2+) salt (1:1)	テルル酸(H2TeO3) ニッケル(Ⅱ) 塩(1:1)	15851-52-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Telluric acid (H2TeO4), nickel(2+) salt (1:1)	テルル酸(H2TeO4) ニッケル(Ⅱ) 塩(1:1)	15852-21-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Tetrahydrogen [[[3-amino-4-sulphophenyl)amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	[[[[[3-アミノ-4-スルホフェニル)アミノ]スルホニル]-29H,31H-フタルシアニンtrisulphonato(6-)-N29,N30,N31,N32]ニッケル酸(4-) 四水素	79102-62-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Tetrasodium [[[3-amino-4-sulphophenyl)amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	[[[[[3-アミノ-4-スルホフェニル)アミノ]スルホニル]-29H,31H-フタルシアニンtrisulphonato(6-)-N29,N30,N31,N32]ニッケル酸(4-) 四ナトリウム	93939-76-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Tetrasodium [bis[[[4-[[2-(sulphoxy)ethyl]sulphonyl]phenyl]amino]sulphonyl]-29H,31H-phthalocyaninedisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	[bis[[[4-[[2-(スルホキシ)エチル]スルホニル]フェニル]アミノ]スルホニル]-29H,31H-フタルシアニン]disulphonato(6-)-N29,N30,N31,N32]ニッケル酸(4-) 四ナトリウム	97280-68-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Titanate(2-), hexafluoro-, nickel(2+), (1:1), (OC-6-11)-	ヘキサフルオロ(2-)酸ニッケル(Ⅱ)(1:1)(炭素数6-11)	34109-80-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Trinickel bis(arsenate)	ヒス酸ニッケル	13477-70-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●	
Aluminiummagnesiumnickelsiliziumoxide	アルミニウムマグネシウムニッケル珪素酸化物	198831-12-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Antimony nickel titanium oxide yellow	C.I.ピグメント10-53	8007-18-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●													●	
Iron nickel zinc oxide	鉄、ニッケル、亜鉛の酸化物	12645-50-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel, [[2,2'-(1,2-phenylenebis[(nitro-κ.N)methylidene]]bis[phenolato-κ.O]](2-)]-		14406-71-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
5,5-Azobis(2,4,6-pyrimidinetriol), nickel complex	C.I.ピグメント10-150(アゾニッケル錯体染料)	68511-62-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Chrome iron nickel black spinel	C.I.ピグメント10-30(クロム鉄ニッケルブラック)	71631-15-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel niobium titanium yellow rutile	C.I.ピグメント10-161(ニッケルニオブチタンイエロー)	68611-43-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●													●	
Nickel phosphate	リン酸ニッケル	14396-43-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Nickel sulfide	硫化ニッケル	11113-75-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●			●	
Phosphoric acid,compounds,nickel(2+) zinc salt (2:1:2)	リン酸ニッケル亜鉛塩(2:1:2)	90053-13-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Phosphoric acid,compounds,nickel(2+) zinc salt (2:1:2) tetrahydrate	リン酸ニッケル亜鉛(2:1:2)・四水和物	501953-51-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●	
Reaction mass of melamine and nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes		EC 939-379-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●	
Residues, copper-iron-lead-nickel matte, sulfuric acid-insol.	銅、鉄、鉛、ニッケルの残渣の非水溶性亜硫酸化合物	102110-49-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●					●					●	
Sillic acid, lead nickel salt	リン酸鉛ニッケル塩	68130-19-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●					●		●			●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Sulfamic acid, nickel(2+) salt (2:1), tetrahydrate (9CI)		124594-15-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●													●		
Trinickel phosphide		12059-19-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel, [29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, sulfo [[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]sulfonyl derivs., potassium sodium salts		113894-88-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickelate(6-), [4-[2-[5-[[[3,6-dichloro-4-pyridazinyl]carbonyl]amino]-2-sulfophenyl]diazenyl]-4,5-dihydro-5-oxo-1-[5-[[[C,C,C-trisulfo-29H,31H-phthalocyanin-C-yl]sulfonyl]amino]-2-sulfophenyl]-1H-pyrazole-3-carboxylato(8-)-κN29,κN30,κN31,κN32]-, sodium		113894-89-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel disulfide		12035-50-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel Sulfide (Ni9S8)		12035-77-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Polydymite (Ni3S4)		12059-21-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel sulfide (Ni2S)		12137-08-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickelate(Ni4O5)(1-), lithium		67163-62-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel(2+) hydrogen sulfate		44121-71-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel subselenide		12255-80-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Acetohydroxamic acid, N-fluoren-2-yl-, nickel(2+) complex		14751-76-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Cinnamic acid, nickel(II) salt		63938-16-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickelate(2-), tetrakis(cyano-C)-, (SP-4-1)-		48042-08-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Sulfuric acid, nickel(2+) salt (1:1), tetrahydrate		61092-77-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Sulfuric acid, nickel(2+) salt (1:1), pentahydrate		66341-42-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Sulfuric acid, nickel(2+) salt (1:1), dihydrate		66634-47-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Godlevskite (Ni7S6)		66732-80-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel Sulfide (Ni4S)		67272-59-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel, [29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, [(3-aminophenyl)amino]sulfonyl sulfo derivs.		68412-19-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel, dextrin complexes		68412-20-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel, [N-(4-chlorophenyl)-3-[2-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-(oxo-κO)-1H-pyrazol-4-yl]methylene]hydrazinylidene-κN2]-α-cyano-1H-isoindole-3-acetamidato(2-)-κN2,κO3]-		106887-33-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel Sulfide (Ni7S3)		84013-51-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Sulfuric acid, nickel(2+) salt (1:1), trihydrate		85017-75-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Nickel Sulfide (Ni3S5), trihydrate		86498-45-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	
Fatty acids, (C=3-22), nickel salts, basic		91845-72-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			●														●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Nickel Sulfide (Ni5S3)		97599-06-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
Nickel Sulfide (Ni5S4)		97599-07-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel Sulfide (Ni5S6)		97599-08-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel Sulfide (Ni9S5)		98443-26-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickelate(1-), (formato-O)[sulfato(2-)-O]-, hydrogen		125275-86-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickelate(1-), (acetato-O)[sulfato(2-)-O]-, hydrogen		125275-87-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickelate(1-), [3-hydroxy-4-[(4-methyl-3-sulfofophenyl)azo]-2-naphthalenecarboxylato(3-)]-, hydrogen		125378-87-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel sulfide (Ni(HS)2)		27911-69-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, tris(neodecanoato-.kappa.O)[.mu.3-[orthoborato(3-)-.kappa.O:.kappa.O':.kappa.O]]tri-		936576-64-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel carbonate hydroxide (Ni5(CO3)2(OH)6)		12122-15-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel arsenide sulfide		12255-10-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel selenide (Ni3Se2)		12137-13-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Ammonium nickel sulfate ((NH4)2Ni2(SO4)3) (6Cl,7Cl)		25749-08-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel tartrate		10471-42-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Perchloric acid, nickel salt		41743-88-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorosulfonyl derivs., reaction products with 2-[(4-aminophenyl)sulfonyl]ethyl hydrogen sulfate monosodium salt, potassium salts		94891-42-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorosulfonyl derivs., reaction products with 2-[(4-aminophenyl)sulfonyl]ethyl hydrogen sulfate monosodium salt, sodium salts		94891-43-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Copper, bis(8-quinolinolato-N1,O8)-, reaction products with C8-10-branched fatty acids, tert-decanoic acid, nickel(2+) diacetate, nickel(2+) carbonate (1:1) and nickel hydroxide (Ni(OH)2)		97660-42-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Speiss, lead, nickel-contg.		98246-91-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Tetrasodium (c-(3-(1-(3-(e-6-dichloro-5-cyanopyrimidin-f-yl(methyl)amino)propyl)-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridylazo)-4-sulfonatophenylsulfamoyl)phthalocyanine-a,b,d-trisulfonato(6-))nickelato II, where a is 1 or 2 or 3 or 4,b is 8 or 9 or 10 or 11,c is 15 or 16 or 17 or 18, d is 22 or 23 or 24 or 25 and where e and f together are 2 and 4 or 4and 2 respectively		148732-74-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Hexasodium (di-[N-(3-(4-[5-(5-amino-3-methyl-1-phenylpyrazol-4-yl-azo)-2,4-disulfo-anilino]-6-chloro-1,3,5-triazin-2-ylamino)phenyl)-sulfamoyl](di-sulfo)-phthalocyaninato)nickel		151436-99-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Nickel, 5-[2-(2-hydroxy-3,7-disulfo-1-naphthalenyl)diazenyl]-1H-1,2,4-triazole-3-carboxylate sodium complexes		738587-10-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
Nickel alloy, base, Ni 54.0-57.0,Ti 43-46,C 0-0.07,Co 0-0.05,Fe 0-0.05,O 0-0.05,Nb 0-0.025,Cr 0-0.01,Cu 0-0.01,H 0-0.005 (UNS N01555)		52013-44-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, [[29H,31H-phthalocyaninato(2-)-[?]N29,[?]N30,[?]N31,[?]N32]-, [[13-[[5-chloro-6-fluoro-4-pyrimidinyl]amino]phenyl]amino]sulfonyl sulfo derivs., sodium salts		134737-17-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, [[29H,31H-phthalocyaninato(2-)-[?]N29,[?]N30,[?]N31,[?]N32]-, sulfo [[14-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]sulfonyl derivs., sodium salts		131866-99-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Phosphinic acid, nickel(2+) salt, hexahydrate		13477-97-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, dichloro[[1,1'-(1,3-propanediyl)bis[[1,1-diphenylphosphine-?]P]]-		15629-92-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
bunsenite		34492-97-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
millerite		1314-04-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
nickel dilactate	ジラクテートニッケル	16039-61-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
nickel potassium fluoride	フッ化ニッケルカリウム	11132-10-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
diammonium nickel hexacyanoferrate	ジアンモニウムニッケルヘキサシアノ鉄	74195-78-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
trinickel tetrasulfide	トリニッケルテトラスルフাইド	12137-12-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
trinickel bis(arsenite)	トリニッケルビス(亜硫酸)	74646-29-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
cobalt nickel oxide	コバルトニッケル灰色の"リカーゼ"; C.I.ピグメント コバルトニッケル酸化物	12737-30-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
nickel boron phosphide	リン酸ニッケル硼素	65229-23-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Hexaaminenickel(II) chloride		10534-88-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Waste solids, chromium-nickel steel manuf.		91082-81-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Waste solids, nickel-manuf.		91082-84-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel carbide (NiC)		12167-08-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Carbamic acid, ethylenebis(dithio-, nickel(II) salt		12275-13-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel oxide (Ni2O)		12359-17-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel sulfide (Ni7S6)		12503-53-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nitric acid, nickel(2+) salt, hydrate		13778-29-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel chloride(NiCl)		13931-83-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Sulfuric acid, nickel(2+) salt (1:1), monohydrate		14168-76-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickelate(2-), tetracyano-, dipotassium, hydrate		14323-41-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, bis(hexahydro-1H-azepine-1-carbodithioato-κS1,κS'1)-, (SP-4-1)-		14434-67-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Octadecanoic acid, nickel salt		14448-69-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
Nitric acid, nickel(3+) salt		15099-34-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickelate(1-), trichloro-, ammonium, hexahydrate		16122-03-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nitric acid, nickel(2+) salt, tetrahydrate		16456-84-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Carbonic acid, nickel(2+) salt (1:1), hexahydrate		17030-82-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel chloride (NiCl2), dihydrate		17638-48-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nitric acid, nickel(2+) salt, octahydrate		18534-07-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
2-[bis(carboxylatomethyl)amino]acetate;nickle(3+)		22965-60-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nitric acid, nickel(2+) salt, dihydrate		23232-50-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel chloride (NiCl2), tetrahydrate		34304-82-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, bis[(2-phenyldiazene-carbothioic acid-kS) 2-phenylhydrazidato-kN2]-		12213-15-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel hydride		37187-84-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Antimony nickel titanium oxide		54576-53-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Dibromobis(tributylphosphine)nickel(II)		15242-92-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Dichlorobis(trimethylphosphine)nickel(II)		19232-05-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
N,N'-Bis(salicylidene)ethylenediaminonickel(II)		14167-20-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Tetraethylammonium tetrachloronickelate(II)		5964-71-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Bis(tricyclohexylphosphine)nickel(II) Dichloride		19999-87-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Dichlorobis(tributylphosphine)nickel(II)		15274-43-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel(II) bromide 2-methoxyethyl ether complex		312696-09-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Tetrakis(triphenylphosphine)nickel(0)		15133-82-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
dichloronickel;1,2-dimethoxyethane		29046-78-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel(II) bromide ethylene glycol dimethyl ether complex		28923-39-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
1,2-Bis(diphenylphosphino)ethane nickel(II) chloride		14647-23-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel(II) sulfate hexa- / heptahydrate		15244-37-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel(II) 1,4,8,11,14,18,22,25-octa-n-butoxy-29H,31H-phthalocyanine		155773-71-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
NICKEL(II) TRIFLUOROMETHANESULFONATE		60871-84-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel(II) tetrafluoroborate hexahydrate		15684-36-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Tetrabutylammonium Bis(1,3-dithiole-2-thione-4,5-dithiolato)nickel(III) Complex		68401-87-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel(II) chloride hydrate		69098-15-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
[N-[[alpha-[[2-(Piperidinoacetamido)phenyl]benzylidene]glycinato]nickel		847654-17-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
[1,3-Bis(2,6-diisopropylphenyl)imidazol-2-ylidene]triphenylphosphine Nickel(II) Dichloride		903592-98-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Ethylenediaminetetraacetic Acid Disodium Nickel(II) Salt Hydrate		11079-07-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Dipotassium tetracyanonickelate hydrate		339527-86-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel(II) carbonate hydroxide tetrahydrate		12244-51-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel sulfide (NiS <sub>2</sub> )		12035-51-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
nickel(2+) disodium 2,2',2''-(ethane-1,2-diyl)dinitrilo)tetraacetate		15708-55-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Citric acid, nickel salt	クエン酸、ニッケル塩	22605-92-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nickel hexafluorosilicate		26043-11-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Di-μ-carbonylbis(η <sup>5</sup> -2,4-cyclopentadien-1-yl)dinickel		12170-92-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Trinickel bis[tetracosam-μ-oxododecaoxo[μ 12-[phosphato(3-)-O:O:O:O':O':O':O":O":O":O":O":O":O"]do decamolybdate(3-)]		12263-13-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Trihydrogen hydroxybis[orthosilicate(4-)]trinickelate(3-)		12519-85-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Dicarbonylbis(triphenylphosphine)nickel		13007-90-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Tetrakis(trifluorophosphine)nickel		13859-65-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Disodium tetracyanonickelate(2-)		14038-85-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel tungsten tetraoxide	ニッケルタングステン四酸化物	14177-51-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Molybdenum nickel tetraoxide	モリブデン四酸化物	14177-55-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Bis(triphenylphosphine)nickel(II) chloride		14264-16-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Bis(1-nitronaphthalen-2-olato-N1,O2)nickel		14406-66-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Bis[bis(2-ethylhexyl)dithiocarbamate-S,S']nickel		14428-08-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
(butylamine)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-O,O',S)]nickel		14516-71-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Bis(6-methylheptane-2,4-dionato-O,O')nickel		14522-99-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Dinickel hexacyanoferrate	ジニッケルヘキサシアノ鉄	14874-78-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Molybdenum nickel hydroxide oxide phosphate	酸化モリブデン水酸化ニッケル	68130-36-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Formic acid, copper nickel salt	ギ酸、銅ニッケル塩	68134-59-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Cobalt nickel gray pericase	コバルトニッケルグレーペリカセ; C.I. 77332	68186-89-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nickel ferrite brown spinel		68187-10-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Resin acids and Rosin acids, nickel salts		68334-36-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, sulfo [[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]sulfonyl derivs.		68412-18-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
Zinc sulfide (ZnS), nickel and silver-doped		68512-22-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Olivine, nickel green		68515-84-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Zinc sulfide (ZnS), copper and nickel-doped		68585-93-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Resin acids and Rosin acids, calcium nickel salts		68607-31-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Hexaamminenickel(2+) diformate		68758-60-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Zinc sulfide (ZnS), copper and nickel and silver-doped		68784-84-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Slags, ferronickel-manufg.		69012-29-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Matte, nickel	ニッケルマッテ	69012-50-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nickel uranyl tetraacetate, of uranium depleted in uranium-235		71767-12-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-[[1,3-dioxobutyl]amino]phenyl]amino]sulfonyl derivs.		72828-53-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel hexafluorozirconate(2-)		30868-55-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Tetrakis(tritoyl phosphite )nickel		35884-66-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Silicic acid, nickel salt	ケイ酸、ニッケル塩	37321-15-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nickel, 3-[(4-chlorophenyl)azo]-4-hydroxy-2(1H)-quinolinone complex		61725-51-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
[2,3'-bis[[2-hydroxyphenyl)methylene]amino]but-2-enedinitrilo(2-)-N2,N3,O3nickel		64696-98-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel oxalate	シュウ酸ニッケル	547-67-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nickel diformate	ニキ酸ニッケル	3349-06-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nickel(2+) propionate	プロピオン酸ニッケル(II)	3349-08-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Trinickel dicitrate		6018-92-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Hexakis(1H-imidazole-N3)nickel(2+) dichloride		15751-00-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●													●	
Nickel triuranium decaoxide		15780-33-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Formic acid, nickel salt	ホルム酸ニッケル塩	15843-02-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nickel(2+) hydrogen citrate	ニッケル(II)シトル酸水素	18721-51-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●			●	
Nitrites, all members	亜硝酸塩、全て					●																	
Ammonium nitrite	亜硝酸アモニウム	13446-48-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Amyl nitrite	亜硝酸アミル	110-46-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Barium nitrite hydrate	亜硝酸バリウム水和物	115216-77-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Butyl nitrite	亜硝酸n-ブチル	544-16-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Cadmium dinitrite	二亜硝酸カドミウム	7790-83-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●
Calcium nitrite	亜硝酸カルシウム	13780-06-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Calcium nitrite hydrated	亜硝酸カルシウム水和物	10031-34-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Cobaltate(3-), hexakis(nitrito-N)-, tripotassium, (OC-6-11)-	六硝酸コバルト(III)酸カリウム	13782-01-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Cobaltate(3-), hexakis(nitrito-O)-, trisodium, (OC-6-11)-	六硝酸コバルト(III)酸(3-)三ナトリウム	14649-73-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Ethyl nitrite	亜硝酸エチル	109-95-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Isobutyl nitrite	亜硝酸イソブチル	542-56-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●		●	
Magnesium nitrite	亜硝酸マグネシウム	15070-34-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Nickel nitrite	亜硝酸ニッケル	17861-62-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●
Potassium nitrite	亜硝酸カリウム	7758-09-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Silver nitrite	亜硝酸銀(I)	7783-99-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Sodium nitrite	亜硝酸ソーダ	7632-00-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
tert-Butyl nitrite	亜硝酸tert-ブチル	540-80-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Dicyclohexylammonium nitrite	ジシクロヘキシルアミン亜硝酸塩	3129-91-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Diethyldihexadecylammonium nitrite (6CI, 7CI)	亜硝酸ジエチルジヘキサデシルアミン	105841-28-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Diisopropylammonium nitrite	亜硝酸ジイソプロピルアミン	34915-40-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Morpholin, Nitrite (9CI)	亜硝酸モルホリン	62076-93-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Nitrous acid, lead(2+) salt	亜硝酸鉛塩	13826-65-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●					●					●
Pentyl nitrite	亜硝酸ペンチル	463-04-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Butan-2-yl nitrite	亜硝酸sec-ブチル	924-43-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Trisodium hexanitritocobaltate	六硝酸コバルト(III)酸ナトリウム	13600-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
4-Nitrobiphenyl and its salts, all members	4-ニトロビフェニルおよびその塩、全て					●																
4-Nitrobiphenyl (4-Nitrodiphenyl)	4-ニトロビフェニル	92-93-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	●			●						●			●			●	
Nitrocellulose	ニトロセルロース	9004-70-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N-Nitrosamines, selected	N-ニトロソアミン類、抜粋					●																
N-Nitroso diethanol amine	N-ニトロソジエタノールアミン	1116-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●		●	
N-Nitroso diethyl amine (Ethanamine, N-ethyl-N-nitroso- )	N-ニトロソジエチルアミン	55-18-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Dimethylnitrosoamine; N-nitrosodimethylamine Methanamine, N-methyl-N-nitroso-	N-ニトロジメチルアミン	62-75-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●													●	●	●	
N-Nitroso ethyl phenyl amine	N-ニトロエチルフェニルアミン	612-64-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N-Nitroso methyl ethyl amine	N-ニトロメチルエチルアミン	10595-95-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
N-Nitroso methyl phenyl amine	N-ニトロメチルフェニルアミン	614-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N-Nitroso morpholine Morpholine, 4-nitroso-	N-ニトロモルフィン	59-89-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
N-Nitroso pyrrolidine	N-ニトロピロリジン	930-55-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
N-Nitrosodi-i-propyl amine	N-ニトロジイソプロピルアミン	601-77-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N-Nitrosodi-n-butylamine (1-Butanamine, N-butyl-N-nitroso- )	N-ニトロジ-n-ブチルアミン	924-16-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
N-Nitrosodi-n-propyl amine	N-ニトロジ-n-プロピルアミン	621-64-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●			●
N-Nitrosopiperidine	N-ニトロピペリジン	100-75-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
4-Nonylphenol, branched and linear, all members	4-ノニルフェノール(分岐および直鎖)、全て					●																
4-Nonylphenol	4-ノニルフェノール	104-40-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
p-Isononylphenol		26543-97-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
p-(1-Methyloctyl)phenol		17404-66-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
p-(1,1-Dimethylheptyl)phenol		30784-30-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
4-(1-Ethyl-1-methylhexyl)phenol		52427-13-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
4-(1-Ethyl-1,3-dimethylpentyl)phenol		186825-36-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
4-(1-Ethyl-1,4-dimethylpentyl)phenol		142731-63-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
Branched 4-nonylphenol	分岐 4-ノニルフェノール	84852-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
Nonylphenol		25154-52-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●	●	●													
4-Nonylphenol, branched and linear, ethoxylated, all members						●																
2-(2-(4-Nonylphenoxy)ethoxy)ethanol		20427-84-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●												
20-(4-Nonylphenoxy)-3,6,9,12,15,18-hexaoxacosan-1-ol		27942-27-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●												
4-t-Nonylphenol-diethoxylate		156609-10-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												
14-(Nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol	14-ノニルフェノキシ(5)ノニルフェノール	26264-02-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												
3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol, 26-(nonylphenoxy)-	26-ノニルフェノキシ(5)ノニルフェノール	26571-11-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												
3,6,9,12,15,18,21-Heptaoxatricosan-1-ol, 23-(nonylphenoxy)-	23-ノニルフェノキシ(7.5)ノニルフェノール	27177-05-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Ethanol, 2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]-	2-(2-(2-(2-(4-4-ノニルフェノキシ)エトキシ)エトキシ)エトキシ)エトキシエーテル	7311-27-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●													
Ethylene oxide-Nonylphenol polymer	エチレンオキシドノニルフェノール重合体	9016-45-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●	●	●												
Nonaethylene glycol p-nonylphenyl ether; NONOXYNOL 9		14409-72-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●												
Nonylphenol polyethylene glycol ether	ノニルフェノールポリエチレングリコールエーテル	20636-48-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												
Poly (oxy-1,2-ethanediyl), alpha -(4-nonylphenyl)-omega-hydroxy -	α-ノニルフェノールω-ヒドロキシポリエーテル	26027-38-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●	●												
Poly (oxy-1,2-ethanediyl), alpha -(nonylphenyl)-omega-hydroxy-, branched	α-ノニルフェノールω-ヒドロキシポリエーテル(分岐型)	68412-54-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●	●	●												
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	(分岐型)α-ノニルフェノールω-ヒドロキシポリエーテル重合体	127087-87-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●	●	●												
Poly(oxy-1,2-ethanediyl), .alpha.-(isononylphenyl)-.omega.-hydroxy-	α-(イソノニルフェノール)ω-ヒドロキシポリエーテル	37205-87-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●	●	●												
Ethanol, 2-(4-nonylphenoxy)-		104-35-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												
p-Nonylphenol hexaethoxylate		34166-38-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●												
O,O,O-triphenyl phosphorothioate		597-82-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Octadecanamine		124-30-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Octamethylcyclotetrasiloxane		556-67-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●	●	●					●								
Octamethyltrisiloxane		107-51-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol						●																
Ozone depleting halogenated Hydrocarbons and Carbons, all members	オゾン層破壊をもたらすハロゲン化炭化水素と炭素、全て					●																
1,1,1,2-Tetrachlor-2,2-difluoroethane	1,1,1,2-テトラクロロ2,2-ジフルオロエタン	76-11-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1,3,3,3-Hexachlor-2,2-difluoropropane	1,1,1,3,3,3-ヘキサクロロ2,2-ジフルオロプロパン(CFC212)	3182-26-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1,3,3-Pentachlor-2,2,3-trifluoropropane	1,1,1,3,3-ペンタクロロ2,2,3-トリフルオロプロパン	2354-06-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1,3-Tetrachlorotetrafluoropropane	1,1,1,3-テトラクロロテトラフルオロプロパン	2268-46-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,1-Tribromo-2,2,2-trifluoroethane	1,1,1-トリブロモ2,2,2-トリフルオロエタン	354-48-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,1,1-Trichloropentafluoropropane	1,1,1-トリクロロペンタフルオロプロパン	4259-43-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1,2-trichloro-1,2,2-trifluoroethane	1,1,2-トリクロロ1,2,2-トリフルオロエタン	76-13-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
1,1-Dibromo-1,2,2,2-tetrafluoroethane	1,1-ジブロモ1,2,2,2-テトラフルオロエタン	27336-23-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
1,1-Dibromo-2,2-difluoroethylene	1,1-ジブロモ2,2-ジフルオロエチレン	430-85-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
1,1-Dichloro-1,2,2,2-tetrafluoroethane	1,1-ジクロロ-1,2,2,2-テトラフルオロエタン	374-07-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,2,2-Trichloropentafluoropropane	1,2,2-トリクロロペンタフルオロプロパン	1599-41-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2,3-Trichloropentafluoropropane	1,2,3-トリクロロペンタフルオロプロパン(別名:HCFC-215)	76-17-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Dibromo-1,1,2-trichloroethane	1,2-ジブロム-1,1,2-トリクロロエタン	13749-38-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,2-Dibromo-1-chloro-1,2,2-trifluoroethane	1,2-ジブロム-1-クロロ-1,2,2-トリフルオロエタン	354-51-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,2-Dibromotetrachloroethane	1,2-ジブロムテトラクロロエタン	630-25-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane	1,2-ジクロロ-1,1,2,3,3,3-ヘキサフルオロプロパン	661-97-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	1,2-ジクロロ-1,1,3,3,3-ペンタフルオロプロパン(別名:HCFC-225)	127564-92-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1,2-Difluorotetrachloroethane	1,1,2,2-テトラクロロ-1,2-ジフルオロエタン	76-12-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
1-Bromo-1-chloro-2,2-difluoroethylene	1-ブロム-1-クロロ-2,2-ジフルオロエチレン	758-24-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
2-Bromo-1,1-dichloroethylene	2-ブロム-1,1-ジクロロエチレン	5870-61-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Bromochlorodifluoromethane	ジブロムクロロジフルオロメタン	353-59-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Bromodichlorofluoromethane	ジブロムジクロロフルオロメタン	353-58-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Bromofluoromethane	ジブロムフルオロメタン	373-52-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Bromopentafluoroethane	ジブロムペンタフルオロエタン	354-55-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Bromotrifluoroethylene	ジブロムトリフルオロエチレン	598-73-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Bromotrifluoromethane	ジブロムトリフルオロメタン	75-63-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Carbon tetrabromide	四臭化炭素	558-13-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Carbon tetrachloride	四塩化炭素	56-23-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●						●									●	
Chlorobromomethane	ジクロロメタン	74-97-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Chlorobromotrifluoroethane	ジクロロトリフルオロエタン	74925-63-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Chlorodibromomethane	ジクロロジフルオロメタン	124-48-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
chlorotrifluoroethylene		79-38-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Chlorotrifluoromethane	クロロトリフルオロメタン	75-72-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Cryofluorane	ジフルオロトリフルオロメタン(CFC114)	76-14-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dibromodichloromethane	ジブロムジクロロメタン	594-18-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Dibromodifluoromethane	ジブロムジフルオロメタン	75-61-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dibromotetrafluoroethane	ジブロムテトラフルオロエタン	25497-30-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Dibromotetrafluoroethane (Halon 2402)	ジブロムテトラフルオロエタン	124-73-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Dichlorodifluoromethane	ジクロロジフルオロメタン	75-71-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
dichlorotetrafluoroethane	ジクロロテトラフルオロエタン	1320-37-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Ethane, 1-bromo-2-chloro-1,1,2-trifluoro-	1,1,2-トリフルオロ-1,2-ジクロロエタン	354-06-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Ethane, 2-bromo-1-chloro-1,1,2-trifluoro-	1,1,2-トリフルオロ-1,2-ジクロロエタン	354-20-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (R)-	1,1,1-トリフルオロ-2,2-ジクロロエタン, (R)	51230-17-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (S)-	1,1,1-トリフルオロ-2,2-ジクロロエタン, (S)	51230-18-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Ethane, tribromo-	トリブロムエタン	598-16-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Ethene, tetrabromo-	テトラブロムエタン	79-28-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Heptachlorofluoropropane	ヘプタクロロフルオロプロパン	135401-87-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Heptachlorofluoropropane	ヘプタクロロフルオロプロパン	422-78-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Heptafluoropropyl chloride	ヘプタフルオロプロピルクロライド	422-86-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															
Hexachlorodifluoropropane	ヘキサクロロジフルオロプロパン	134452-44-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Hexachloroethane	ヘキサクロロエタン	67-72-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●		●													●	
Methane, bromotrichloro-	トリクロロブロムメタン	75-62-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Methane, tribromofluoro-	トリブロムフルオロメタン	353-54-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Methyl bromide (Bromomethane)	臭化メチル	74-83-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●														●	
Monochloropentafluoroethane	モノクロロペンタフルオロエタン	76-15-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Pentabromoethane	ペンタブロムエタン	75-95-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Pentachlorofluoroethane	ペンタクロロフルオロエタン	354-56-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Pentachlorotrifluoropropane	ペンタクロロトリフルオロプロパン	134237-31-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Tetrachlorotetrafluoropropane	テトラクロロテトラフルオロプロパン	29255-31-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Tribromochloromethane	トリブロムクロロメタン	594-15-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Trichlorofluoromethane	トリクロロフルオロメタン	75-69-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Trichlorotrifluoroethane	CFC-113(トリクロロトリフルオロエタン)	26523-64-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																	
Trichlorotrifluoroethane	CFC-113(トリクロロトリフルオロエタン)	354-58-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																
Pentachlorobenzene	ペンタクロロベンゼン	608-93-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●							●					●					
Pentachlorophenol (PCP) and its salts and esters, all members	4-ニトロフェノール（分岐および直鎖）、エトキシレート、全て					●																	
Methyl(pentachlorophenolato)mercury	メチル水銀(Ⅱ)ペンタクロロフェネート	5902-76-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5	●					●	●	●					●				●	
Pentachlorophenol	ペンタクロロフェノール	87-86-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5	●							●					●				●	
Potassium pentachlorophenate (Phenol, 2,3,4,5,6-pentachloro-, potassium salt (1:1))	カリウムペンタクロロフェネート	7778-73-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5	●							●					●				●	
Sodium Pentachlorophenate Phenol, 2,3,4,5,6-pentachloro-, sodium salt (1:1)	ナトリウムペンタクロロフェネート	131-52-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5	●							●					●				●	
Zinc bis(pentachlorophenolate)	ペンタクロロフェネート亜鉛	2917-32-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5	●							●					●				●	
Trimethylcetylammonium pentachlorophenate		87-76-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Copper (II) = bis (2,3,4,5,6-pentachlorophenolate)		2917-31-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Tributyl (pentachlorophenoxy) tin		3644-38-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl = laurate		3772-94-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Bis (pentachlorophenyl) = carbonate		7497-08-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl = oleate		10443-46-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl = N (2) - [(benzyloxy) carbonyl] -L- glutamate		13673-51-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl = N - [(benzyloxy) carbonyl] -L-isoleuccinate		13673-53-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Pentachlorophenyl = (R) -2 - {[ (benzyloxy) carbonyl] amino} -3- (benzylsulfanyl) propanoate		13673-54-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●			●		
Pentachlorophenyl = N - {[ (4-methoxybenzyl) oxy] carbonyl} -L-serinate		23234-97-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Sodium = pentachlorophenolate decahydrate		27735-63-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Sodium = pentachlorophenolate monohydrate		27735-64-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl = (S) -5-oxopyrrolidine-2-carboxylate		28990-85-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Triethanolamine-penta-chlorophenolate		32978-79-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Compound of abieta-8(14),9(11),12-trien-18-amine and pentachlorophenol		35109-57-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl salicylate		36994-69-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
(R) -5-oxopyrrolidine-2-carboxylic acid pentachlorophenyl		50654-95-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl = N - [(benzyloxy) carbonyl] -L-tyrosinate		55593-07-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Calcium bis (pentachlorophenolate)		55868-72-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl = 5-oxopyrrolidine-2-carboxylate		67246-71-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
The compound of coco-alkylamine and pentachlorophenol (1: 1)		90640-52-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Quaternary ammonium compounds, coco alkyltrimethyl, salts with pentachlorophenol		91080-93-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl ester of fatty acid (C = 8 to 12)		98219-40-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Pentachlorophenyl ester of fatty acid (C = 16 to 18)		98219-41-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 5								●					●				●	
Perchlorates, all members	過塩素酸塩、全て					●																	
Ammonium perchlorate	過塩素酸アンモニウム	7790-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●																
Barium perchlorate	過塩素酸バリウム	13465-95-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●																
Lead perchlorate	過塩素酸鉛(Ⅱ)	13637-76-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●	●		●	●						●					●	
Lithium Perchlorate	過塩素酸リチウム	7791-03-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●																
Magnesium Perchlorate	過塩素酸マグネシウム	10034-81-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●																
Perchloric acid, reaction products with lead oxide (pbo) and triethanolamine	酸化鉛(PbO)とトリイソノールアミンによる反応生成物の過塩素酸	99749-31-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●		●		●	●						●					●	
Perchloric acid, cobalt (2+) salt	過塩素酸コバルト	13455-31-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●																
Perchloric acid, mercury(2+) salt	過塩素酸第二水銀	7616-83-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●			●	●											●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Perchloric acid, nickel(2+) salt, hexahydrate	過塩素酸ニッケル(Ⅱ)六水和物	13520-61-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●	●													●	
Nickel perchlorate	過塩素酸ニッケル(Ⅱ)	13637-71-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●	●											●		●	
Potassium Perchlorate	過塩素酸カリウム	7778-74-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●															
Sodium Perchlorate	過塩素酸ナトリウム	7601-89-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●															
Thallium(3+) perchlorate	三過塩素酸リウム(Ⅲ)	15596-83-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●															
Per and Poly- fluoroalkyl substances (PFAS)		-																				
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts, all members	ノナデカフルオロデカン酸 (PFDA) 、そのナトリウム塩、アンモニウム塩、全て					●																
Nonadecafluorodecanoic acid (PFDA)		335-76-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●	●	●										●			
Nonadecafluorodecanoic acid, sodium salt		3830-45-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●											●			
Nonadecafluorodecanoic acid, ammonium salt		3108-42-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●											●			
Perfluorobutane sulfonic acid (PFBS) and its salts, all members	パーフルオロブタンサルホン酸 (PFBS) およびその塩、全て					●																
Nonafluorobutane-1-sulphonic acid		375-73-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
Potassium nonafluorobutane-1-sulfonate		29420-49-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●														
PFNA, Perfluorononan-1-ic-acid and its sodium and ammonium salts	PFNA、パーフルオロノナン-1-オイクツアシッドおよびそのナトリウム塩、アンモニウム塩					●																
Ammonium salts of perfluorononan-1-ic-acid		4149-60-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●											●			
Perfluorononan-1-ic-acid		375-95-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●	●	●										●			
Sodium salts of perfluorononan-1-ic-acid		21049-39-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●											●			
PFHxA, Undecafluorohexanoic acid, its salts and PFHxA related substances		-																				
PFHxA and its salts	PFHxAおよびその塩		Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
Ammonium undecafluorohexanoate		21615-47-4	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
sodium undecafluorohexanoate		2923-26-4	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
undecafluorohexanoic acid		307-24-4	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
PFHxA related substances	PFHxA関連物質		Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
Chlorodimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-noctyl)silane		102488-47-1	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
sodium hydrogen (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phosphonate		1189052-95-6	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)phosphonic acid monoethyl ester		1189052-97-8	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl methacrylate		1228350-17-1	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
lithium 2-(bis(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-2-hydroxynonyl)amino)ethane-1-sulfonate		1262880-17-0	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																
4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluoro-2-hydroxynonyl acrylate		127377-12-2	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4bis(trifluoromethyl)heptyl]silane		130676-81-2	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4(trifluoromethyl)pentane		132182-92-4	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
(perfluorohexyl)hexadecane		133310-71-1	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
1-(Perfluorohexyl)octane		133331-77-8	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
Trimethyl(tridecafluorohexyl)silane		135841-49-5	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
4,4,5,5,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl acrylate		16083-76-4	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
4,4,5,5,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl methacrylate		16083-79-7	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl acrylate		17527-29-6	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
bromotris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane		175354-31-1	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane		175354-32-2	Observation	REACH Regulation Annex XVII Regulation Target	25ppb excluding fluoropolymer 500ppb with fluoropolymer	●																	
ammonium 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanesulfonate; reaction mass of: 3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluoro-1-octanesulfonic acid		182176-52-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●				
(prop-2-en-1-yl)tris(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)stannane		192212-66-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Tris[4-(tridecafluorohexyl)phenyl]phosphine		193197-68-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane		2043-57-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
1H,1H-Tridecafluoro-1-iodoheptane		212563-43-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl methacrylate		2144-53-8	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phenyl]phosphine		219985-31-6	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Phosphonic acid, P-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-		252237-40-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-ene		25291-17-2	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
1H-Tridecafluoro-3,3-dimethylhex-1-yne		261503-44-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester		26650-09-9	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Methyl Perfluoroamyl Ketone		2708-07-8	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonyl chloride		27619-89-2	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonic acid		27619-97-2	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
2H,2H,3H,3H-Perfluorononanoic acid		27854-30-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Perfluorohexanoic Anhydride		308-13-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1-Methyl-3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)imidazolium hexafluorophosphate		313475-50-2	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)tin oxide		324063-66-3	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Perfluorohexanoyl chloride		335-53-5	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
1-bromo-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane		335-56-8	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide		34451-26-8	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluoro-octane-1-sulfonamide		34455-22-6	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Carboxymethyl-dimethyl-3-[[[3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide		34455-29-3	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
1H,1H-Undecafluorohexylamine		355-34-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Perfluorohexanoyl fluoride		355-38-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane		355-43-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol		356055-76-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Diisopropyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		356056-14-9	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
4-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]butane-1thiol		36097-07-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol		375-82-6	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Ethyl Perfluoroamyl Ketone		383177-55-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane		38550-34-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
(2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)oxirane		38565-52-5	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-		423-46-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
1H,1H-Tridecafluoroheptylamine		423-49-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Methyl Undecafluorohexanoate		424-18-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Bis(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl) azodicarboxylate		452912-11-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
2-[methyl[(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)sulphonyl]amino]ethyl acrylate		49859-70-3	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
(7E)-7H,8H-Hexacosfluorotetradec-7-ene		51249-67-3	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
1-Octanesulfonamide, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-N(2-hydroxyethyl)-N-methyl-		51619-73-9	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																
Triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		51851-37-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●			●													
Perfluoroheptanoyl chloride		52447-22-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
6:2 fluorotelomer carboxylic acid		53826-12-3	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
3-(Perfluoro-3-methylbutyl)-1,2-propenoxide 97%		54009-81-3	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
N-[4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyloxy]succinimide		556050-48-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
1H-Perfluorooct-1-yne		55756-24-6	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
6:2 fluorotelomer aldehyde		56734-81-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, 1(dihydrogen phosphate)		57678-01-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Potassium 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctan esulphonate		59587-38-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Ammonium Perfluorohexylethylsulfonate		59587-39-2	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
sodium 2-methyl-2-((3-((3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio)propanoyl)amino)propane-1-sulfonate		62880-93-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
perfluoroheptanal		63967-41-9	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
2-(Perfluoro-3-methylbutyl)ethyl methacrylate		65195-44-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
6:2 fluorotelomer unsaturated aldehyde		69534-12-9	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
6:2 fluorotelomer unsaturated carboxylic acid		70887-88-6	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Dichloromethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		73609-36-6	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
2-Hydroxy-N,N-dimethyl-3-sulfo-N-[3-((3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl)amino]propyl]-1-propanaminium, inner salt		76201-56-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
(Perfluorohexyl)phenyliodonium Trifluoromethanesulfonate		77758-84-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		78560-45-9	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctan esulphonamide N-oxide		80475-32-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorooctane		80793-17-5	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol		80806-68-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
1-(Perfluorohexyl)docosane		825651-73-8	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)maleimide		852527-41-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide		852527-50-5	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl azide		852527-60-7	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		85857-16-5	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●			●														
Dimethoxymethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		85857-17-6	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
3-perfluorohexyl-2-hydroxypropyl methacrylate		86994-47-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
(Perfluorohexyl)trifluoroacrylate		87375-53-9	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)thio]propan-1-aminium chloride		88992-45-4	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide		89889-20-3	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol		914637-05-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
2-Chloro-4,6-bis[3-(perfluorohexyl)propoxy]-1,3,5-triazine		916770-15-5	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
N-Succinimidyl 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononanoate		932710-51-5	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
2,7-Bis(1H1H2H,2H-perfluorooctyl)-9-fluorenylmethoxycarbonyl chloride		932710-57-1	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-chloroacrylate		96383-55-0	Observation	REACH Regulation Annex XVII Regulation Target	1,000ppb excluding fluoropolymer 2,500ppb with fluoropolymer	●																	
PFOA, perfluorooctanoic acid, its salts and PFOA related compounds						●																	
PFOA and its salts	PFOAおよびその塩					●																	
Perfluorooctanoic acid		335-67-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●	●	●										●	●	●	●	●	●
Perfluorooctanoate (conjugate base of the free acid)		45285-51-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Branched perfluorooctanoic acid		90480-55-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-		1882109-81-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-		1882109-80-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-		1882109-79-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-		1882109-78-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-		1882109-77-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-		1882109-76-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-		1882109-75-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-		1882109-74-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-		1882109-73-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-		1882109-72-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-		1882109-71-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-		1882109-70-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●
Pentanoic acid, 2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-		1882109-68-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●	●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Pentanoic acid, 2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-		1882109-67-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●											●		●		●	
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-		1882109-66-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Pentanoic acid, 2,3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-		1882109-65-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-		1882109-64-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Pentanoic acid, 3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-		1882109-63-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Pentanoic acid, 3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-		1882109-69-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-		1882109-62-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-		1882109-61-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Butanoic acid, 2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1,1-bis(trifluoromethyl)ethyl]-		1882109-60-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-		1882109-59-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-		1882109-58-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluoromethyl)-		1812247-20-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,3,3,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-		1812247-19-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,3,4,4,5,5,6,6,6-nonafluoro-2,3-bis(trifluoromethyl)-		1812247-18-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-		1812247-17-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-		1192593-79-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,2,3,3,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-		1144512-36-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,2,3,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-		1144512-35-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-		1144512-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-		1144512-18-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-		909009-42-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-		705240-04-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-		207678-51-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Isooctanoic acid, pentadecafluoro-		123116-17-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-		35605-76-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-		15166-06-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Ammonium salt, linear/branched PFOA (Octanoic acid, pentadecafluoro-, branched, ammonium salt)		90480-56-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, ammonium salt (1:1)		3825-26-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	25 ppb. Intentionally added amounts must be reported to EPA	●	●	●										●	●	●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, sodium salt (1:1)		335-95-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	25 ppb. Intentionally added amounts must be reported to EPA	●	●											●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, potassium salt (1:1)		2395-00-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	25 ppb. Intentionally added amounts must be reported to EPA	●	●											●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, silver(1+) salt (1:1)		335-93-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	25 ppb. Intentionally added amounts must be reported to EPA	●	●											●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, chromium(3+) salt (3:1)		68141-02-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluorooctanoate (1:1)		98241-25-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2-(1,1,2,2,2- pentafluoroethyl)-, ammonium salt (1:1)		13058-06-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2-(1,1,2,2,2- pentafluoroethyl)-, sodium salt (1:1)		1195164-59-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)		19742-57-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)		61436-04-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)		29457-73-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)		18017-22-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)		15739-82-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)		15715-47-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA25ppb	●												●		●		●
PFOA Related Compounds	PFOA関連化合物					●																
Fatty acids, C7-13, perfluoro		68333-92-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Fatty acids, C7-19, perfluoro		91032-01-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Fatty acids, C7-13, perfluoro, ammonium salts		72968-38-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,6,7,7,8,8,8- pentadecafluoro-, methyl ester		376-27-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●	●											●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,6,7,7,8,8,8- pentadecafluoro-, ethyl ester		3108-24-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●	●											●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,6,7,7,8,8,8- pentadecafluoro-, 1,1'-anhydride		33496-48-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.		68412-69-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts		93062-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Bis(perfluorooctyl)phosphinic acid		40143-79-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Perfluorohexylperfluorooctyl phosphinate		610800-34-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		335-66-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●	●											●		●		●
Perfluorooctyl iodide		507-63-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafuoro-11-iodo-		307-50-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-12-iodo-		307-60-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-14-iodo-		307-63-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacontafuoro-15-iodo-		335-79-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafuoro-13-iodo-		376-04-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-10-iodo-		423-62-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafuoro-9-iodo-		558-97-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafuoro-10-iodo-2-(trifluoromethyl)-		677-93-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)-		3248-61-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-octacosafuoro-14-iodo-2-(trifluoromethyl)-		3248-63-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 1-bromo-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafuoro-		307-43-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alkyl iodides, C6-18, perfluoro		90622-71-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		2043-53-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-12-iodo-		2043-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodo-		30046-31-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14, 14-nonacosafuoro-16-iodo-		65510-55-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafuoro-11-iodo-		65510-56-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Alkyl iodides, C4-20, γ-ω-perfluoro		68188-12-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Alkyl iodides, C10-12, γ-ω-perfluoro		68390-33-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
8:2 Fluorotelomer olefin		21652-58-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Dodecene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		30389-25-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuoro-		60699-51-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-		39239-77-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		865-86-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		678-39-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●	●											●		●		●
2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-eicosafuoro-		70887-94-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		53826-13-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-		70887-84-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		27854-31-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate)		63295-27-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate)		63295-28-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-16-(trifluoromethyl)-, 1-(dihydrogen phosphate)		63295-29-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-, 1-(dihydrogen phosphate)		94158-70-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-, 1-(dihydrogen phosphate), diammonium salt		94200-46-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-, 1-(dihydrogen phosphate), diammonium salt		94200-47-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-, 1-(dihydrogen phosphate), diammonium salt		94200-48-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13, 13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt		94200-50-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafuoro-14- (trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt		94200-51-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16,17,17,17- octacosafuoro-16-(trifluoromethyl)-, 1- (dihydrogen phosphate), diammonium salt		94200-52-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
8:2 Fluorotelomer phosphate monoester		57678-03-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
8:2 Fluorotelomer phosphate diester		678-41-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, dihydrogen phosphate, diammonium salt		93857-44-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuoro-, 1-(dihydrogen phosphate)		57678-05-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuoro-, 1,1'-(hydrogen phosphate)		1895-26-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16,17,17,17- octacosafuoro-2-hydroxy-16- (trifluoromethyl)heptadecyl ester		16083-78-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15,16,16,16- nonacosafuorohexadecyl ester		4980-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,14,14- pentacosafuorotetradecyl ester		6014-75-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafuoro-2- hydroxy-14-(trifluoromethyl)pentadecyl ester		16083-87-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,14,14,14-tetracosafuoro-13- (trifluoromethyl)tetradecyl ester		52956-82-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12, 12-eicosafuoro-11- (trifluoromethyl)dodecyl ester		74256-14-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,14,14,14-tetracosafuoro-13- (trifluoromethyl)tetradecyl ester		74256-15-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-(Perfluorodecyl) ethyl acrylate		17741-60-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●											●		●		●	
2-(Perfluorodecyl) ethyl methacrylate		2144-54-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
8:2 Fluorotelomer acrylate		27905-45-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●											●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
8:2 Fluorotelomer methacrylate		1996-88-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, γ-w-perfluoro-C8-14-alkyl esters		85631-54-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15,16,16,16- octacosafuoro-15- (trifluoromethyl)hexadecyl ester		91615-22-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15,16,16,17,18,18,18- dotriacontafuoro-17- (trifluoromethyl)octadecyl ester		94158-63-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15,16,16,16- octacosafuoro-15- (trifluoromethyl)hexadecyl ester		94158-64-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15,16,16,17,18,18,18- dotriacontafuoro-17- (trifluoromethyl)octadecyl ester		94158-65-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanaminium, N-(2-carboxyethyl)-N, N- dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10, 10,11,11,12, 12,13,13,14,14,15,15,15- pentacosafuoro-2-hydroxypentadecyl) amino]-, inner salt		93776-12-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanaminium, N- (2-carboxyethyl)-3- [(4,4,5,5,6,6,7,7,8,8,9,9,10, 11,11,12, 12,13,13,13-heneicosafuoro-2- hydroxytridecyl)amino] -N,N-dimethyl-, inner salt		93776-13-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Tridecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13, 13,13-eicosafuoro-12-(trifluoromethyl)-		94159-83-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Pentadecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,15-pentacosafuoro-		94159-79-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Tridecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,13-heneicosafuoro-		94159-80-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Pentadecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafuoro-14- (trifluoromethyl)-		94159-82-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
8:2 Fluorotelomer stearate monoester		99955-83-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,10-heptadecafluorodecyl) oxy]-2-oxoethyl]-3-hydroxy-, 1,5-bis(3,3, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl) ester		302911-86-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Perfluorooctylethylchloromethyl silane		3102-79-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Perfluorooctylethyltrimethylchlorosilane		74612-30-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Perfluorooctylethyltriethoxysilane		101947-16-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Perfluorooctylethyltrichlorosilane		78560-44-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Perfluorooctylethyltrimethoxysilane		83048-65-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Propanamide, 3-[(γ-ω-perfluoro-C4-10-alkyl)thio] derivatives		68187-42-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide		70969-47-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Carbamic acid, [2-(sulphothio)ethyl]-, C-(γ-ω-perfluoro-C6-9-alkyl) esters, monosodium salts		95370-51-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,3-Propanediol, 2,2-bis[(γ-ω-perfluoro-C4-10-alkyl)thio]methyl derivatives, phosphates, ammonium salts		148240-85-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,3-Propanediol, 2,2-bis[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl derivatives, phosphates, ammonium salts		148240-87-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,3-Propanediol, 2,2-bis[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl derivs., phosphates, ammonium salts		148240-89-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-(γ-ω-perfluoro-C8-20-alkyl)thio]propyl ethers		183146-60-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio]derivs., compds. with diethanolamine		71608-61-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)		94200-45-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Pentadecanol, 1,1'-[oxybis(1-methyl-2,1-ethanediyloxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-		93776-00-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		115592-83-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ-ω-perfluoro-C8-14-alkyl acrylate		129783-45-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and γ-ω-perfluoro-C8-14-alkyl acrylate		144031-01-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12 12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-propenoate, alpha-(2- methyl-1-oxo-2-propenyl)-omega-[(2-methyl- 1-oxo-2-propenyl)oxy]poly(oxy-1, 2- ethanediy), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12 13,13,14,14,15,15,16,16,16- nonacosafuorohexadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12 13,13,14,14,14-pentacosafuorotetradecyl 2- propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12 13,13,14,14,15,15,16,16,17,17,18,18,18- trtriacontafuorooctadecyl 2-propenoate		116984-14-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●		
Poly[2-(perfluorooctyl)ethyl acrylate]		74049-08-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl 2-methyl- 2-propenoate, methyl 2-methyl-2- propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,11,11,12,12,13,13,14,14, pentacosafuorotetradecyl 2-methyl-2- propenoate and 3,3,4,4,5,5,6,6, 7,7,8,8,8- tridecafluorooctyl 2-methyl-2-propenoate		65104-45-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluorooctyl ester, polymer with 2-propenoic acid		53515-73-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
Amides, C7-19, α-ω-perfluoro-N,N- bis(hydroxyethyl)		90622-99-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
Piperazinium, 1-(carboxymethyl)-1-(2- hydroxyethyl)-4- (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10- nonadecafluoro-1-oxodecyl)-, inner salt		71356-38-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
2-Propenoic acid, perfluoro-C8-16-alkyl esters		85681-64-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2- hydroxyethylmethacrylate, Me methacrylate and perfluoro-C8-14-alkyl acrylate		125328-29-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
Phosphine, tris[4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]-		325459-92-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
Palladium, dichlorobis[tris[4-(3,3,4,4,5,5,6, 6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]phosphine-k P]-		326475-46-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
1-Propanaminium, N-(2-carboxyethyl)- N,N-bis(2-hydroxyethyl)-3- [(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl)amino]-, inner salt		39186-68-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
Octanamide, N-[3-[bis(2- hydroxyethyl)amino]propyl]- 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-		41358-63-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
Benzenesulfonyl chloride, 3,4- bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl)amino]-		24216-05-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
1-Propanaminium,N,N,N-trimethyl-3- [(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl) amino]-, chloride (1:1)		53517-98-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	
Octanamide, N-(3-aminopropyl)- 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-		85938-56-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1-Propanesulfonic acid,3-[ethyl (2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl)amino]- ,sodium salt (1:1)		89685-61-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Nonene, heptadecafluoro-1- [(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoroctyl)oxy]-		84029-60-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-1-octanesulfonamide, N- Ethylperfluorooctane-1-sulfonamide		4151-50-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Other PFOA Related Compounds	その他のPFOA関連化合物		Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●																
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		2043-52-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-8-iodo-		10258-49-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		25291-12-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-		169331-74-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Nonene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9- pentadecafluoro-		25431-45-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-		38787-57-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		25431-48-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		918-32-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		38787-66-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-		109856-51-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tricosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-		57325-44-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Decene, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- pentadecafluoro-, (E)- (9CI)		89889-22-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Nonanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9- pentadecafluoro-		755-02-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- pentadecafluoro-		25600-66-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		25431-52-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Octanamine, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-		307-29-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Octanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-		307-30-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tricosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		57325-43-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Octanamine, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, hydrochloride(1:1)		5678-75-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- pentadecafluoro-2-iodo-		16083-64-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Pentacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-9-iodo-		2837-34-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
5-Tridecene, 7,7,8,8,9,9,10,10,11,11,12,12,13,13- pentadecafluoro-		52717-05-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Octanenitrile, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		647-12-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
6-Tetradecene, 8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentadecafluoro-		38787-60-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		335-60-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,1-Octanediol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		31185-69-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
8-Heptadecene, 1,1,1,2,2,2,3,3,4,4,5,5,6,6,7,7-pentadecafluoro-		52717-06-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Nonanone, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluoro-		754-85-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Nonanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluoro-2-methyl-		92914-88-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoyl chloride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		335-64-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decanoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-pentadecafluoro-		812-70-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoyl bromide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		222037-87-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanimidamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		307-31-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Nonanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluoro-		45291-33-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoic-1,2-13C2 acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		864071-08-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoic-1-13C acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro- (9CI)		864071-09-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)		927835-01-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2)		98065-31-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
7-Hexadecene, 1,1,1,2,2,2,3,3,4,4,5,5,6,6,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-triacontafuoro-, (E)- (9CI)		51249-68-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octane, 1,1,1,2,2,2,3,3,4,4,5,5,6,6,7,7-pentadecafluoro-8-(2-propen-1-yloxy)-		812-72-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Oxirane, 2-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)-		20084-49-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Nonanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluoro-		27607-61-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		423-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Octanamine, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)-		3145-68-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, butyl ester		307-96-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanimidamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-hydroxy-		4314-38-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, 2-propen-1-ylester		20120-44-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ethenyl ester		307-93-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester		307-98-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Pyridinium, 1-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)-, 1,1,1-trifluoromethanesulfonate (1:1)		25061-59-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester		3934-23-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanamium, N-(carboxymethyl)-4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-pentadecafluoro-N,N-dimethyl-, inner salt		171184-15-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Hexadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester		111918-97-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Methanesulfonic acid, 1,1,1-trifluoro-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester		17352-09-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-hydroxy-		15435-88-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester		886046-97-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzeneethanamine, N-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctylidene)-		29723-33-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenamide, N-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)-		424-01-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanamide, N-butyl-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		37696-83-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzoic acid, 4-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]-		129560-87-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanamide, N-dodecyl-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		37696-86-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzoic acid, 4-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)amino]-		73782-58-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-(2-hydroxypropyl)-		1407514-44-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzoic acid, 4-hydroxy-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctylester		869308-35-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Octanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, 1-(4-methylbenzenesulfonate)		24962-65-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanamide, N-[4-(dimethylamino)butyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		118454-01-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Butenedioic acid (2E)-, bis(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl) ester (9CI)		24120-18-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, (4-ethenylphenyl)methyl ester		230295-06-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1-Propanaminium, N,N,N-trimethyl-3- [(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl)amino]-, iodide (1:1)		335-90-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-N-[3- (triethoxysilyl)propyl]-		37043-12-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,3,5,2,4,6-Triazatriphosphorine, 2,2,4,4,6,6-hexahydro-2,2,4,4,6,6- hexakis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-oxy)]- (9CI)		186043-52-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-N-[2-(2- hydroxyethoxy)ethyl]-		110388-02-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanamide, N,N'- trimethylenebis[2,2,3,3,4,4,5,5,6,6,7,7,8,8, 8-pentadecafluoro- (8CI)		29680-98-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,3,5,2-Triazaphosphorine, 2,2-diazido- 2,2-dihydro-4,6- bis(pentadecafluoroheptyl)- (9CI)		95215-99-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphinous amide, N- (2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-oxy)]-P,P- bis(pentafluorophenyl)- (9CI)		518358-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
[1,1'-Biphenyl]-4-carboxylic acid, 4'-(2- methylbutyl)- ,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-oxy ester, (S)- (9CI)		118826-52-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-N-(4-methoxyphenyl)-		103188-04-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanamide, N,N'-(1R,2R)-1,2- cyclohexanediybis[2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8-pentadecafluoro- (9CI)		864149-62-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanamide, N,N'-1,2- cyclohexanediybis[2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8-pentadecafluoro-		305848-92-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,2-Benzenedicarboxylic acid, 3,4,5,6- tetrachloro-, 1,2- bis(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-oxy) ester		2212-77-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Propanaminium, N-(carboxymethyl)- N,N-dimethyl-3- [(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl)amino]-, inner salt		90179-39-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanoic acid, pentadecafluoro-, mixed esters with 2,2'-[1,4- butanediybis(oxyethylene)]bis[oxirane] and 2,2'-[1,6- hexanediybis(oxyethylene)]bis[oxirane]		90480-57-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Poly(oxy-1,2-ethanediyl), α-[2- [(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl)amino]ethyl]- ω-hydroxy-		93480-00-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9- pentadecafluorononyl ester		1799-55-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Propanaminium, N-(2-carboxyethyl)- N,N-dimethyl-3- [(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-1-oxooctyl)amino]-, inner salt		5158-52-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-oxy ester, homopolymer		29014-57-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Methanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-oxyanoate (1:1)		32609-65-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1-Nonanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluoro-, dihydrogenphosphate, diammonium salt (9CI)		63439-39-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Benzenesulfonyl chloride, [[[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]methyl]-, branched and linear		90218-71-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoroundecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-pentacosafuorotetradecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluorononyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafuorotridecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoroctyl 2-propenoate(9CI)		105656-07-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecylester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoroundecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluorononyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafuorotridecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoroctyl 2-methyl-2-propenoate (9CI)		105681-94-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)		277749-00-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 1,1,2,2,3,3,3-heptafluoropropyl ester, polymer with methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluorononyl 2-methyl-2-propenoate and 1,1,2,2,2-pentafluoroethyl 2-methyl-2-propenoate		1017277-36-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Cyclotetrasiloxane, 2-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecyl)-2,4,6,8-tetramethyl-, Si-[3-(oxiranylmethoxy)propyl] derivs		206886-57-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Poly(oxy-1,2-ethanediyl), .alpha.-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)-.omega.-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)oxy]-		122402-79-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, C16-18-alkyl esters, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl acrylate		160336-09-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, methyl ester, telomere with 1-dodecanethiol, 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 2-Propenoic acid		321318-71-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl group]-terminated, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol- and 2-hydroxyethyl acrylate-blocked 2,4-TDI-trimethylolpropane polymer		501098-09-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Trisiloxane, 3,3'-(3,3,4,4,5,5,6,6,7,7,8,8-dodecafluoro-1,10-decanediyl)bis[3-((dimethylsilyl)oxy)-1,1,5,5-tetramethyl-, reaction products with 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-1-undecene		185701-89-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Silicic acid (H4SiO4), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol		125476-71-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Poly[[1,3-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-1,3:1,3-disiloxanediyldiene]-1,3-		161045-59-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,5-Trisiloxanediol, 3-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-1,1,3,5,5-pentamethyl- (9CI)		165320-75-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Perfluoroalkylethyl acrylates (C6-C14)		85631-54-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 10-bromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		21652-57-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		38550-35-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,9,9-octadecafluoro-8-iodo-		922524-04-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decyne, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		55009-88-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecane, 12-bromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		332136-76-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 9,10-dibromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		51249-63-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		99325-00-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		92835-74-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		96791-81-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,11,11,12,12,12-docosafuoro-9-iodo-		641617-25-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,11,11,12,12,13,13,14,14,14-hexacosafuoro-		53638-09-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 9,9,10-tribromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		59665-26-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecane, 11,12-dibromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		214358-54-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		176979-17-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decene, 2-bromo-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		51249-65-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		1257261-93-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,11,11,12,12,13,13,14,14,14-hexacosafuoro-9-iodo-		53638-13-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1-Decene, 2-chloro-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		110927-73-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanamine, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		30670-30-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Docosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		176979-18-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		1257261-94-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		176979-19-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-12-iodo-		1257261-91-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		1257261-95-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanethiol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		34143-74-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-iodo-		38550-45-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)bis(1-methylethyl)-		356056-15-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-methyl-		136022-91-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decanal, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		135984-68-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Dodecanethiol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		34451-28-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silane, trichloro(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)-		102488-49-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Tridecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-2-iodo-		38550-46-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decene, 1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-iodo-, (Z)- (9CI)		56184-40-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-		94159-84-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecanal, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		864551-38-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)bis(1-methylethyl)-		356056-16-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Docosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-tetratriacontafuoro-10,13-diiodo-		460744-98-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,14,14,15,15,16,16,17,17,18,18,19,19,20,20,20-triacontafuoro-9,12-diiodo-		25474-72-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
5-Tetradecene, 1,1,1,2,2,3,3,4,4,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-hexacosafuoro-, (E)- (9CI)		51249-69-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,24-tetracontafluoro-10,15-diiodo-		959462-52-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Heneicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,21-tetracontafluoro-10,12-diiodo-		1254971-75-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)trimethoxy-		123445-18-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silamine, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-N,N,1,1-tetramethyl-		1221157-06-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
6-Tetradecene, 1,1,1,2,2,3,3,4,4,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-		53638-14-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,4-Butanediol, 2-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluorooctyl)-		135440-42-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
8-Hexadecene, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-triacontafuoro-, (E)- (9CI)		35709-15-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decanoyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptafluoro-		64018-23-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Heptacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,27-dotetracontafuoro-12,16-diiodo-		784189-62-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-dotetracontafuoro-12,17-diiodo-		1980064-30-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,26-dotetracontafuoro-12,15-diiodo-		1980086-18-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silanediamine, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-N,N,N',N',1-pentamethyl-		186599-47-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphinic acid, P-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-		731858-13-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)-		146090-84-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Dodecanoyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		64018-26-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Decenal, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-, (2Z)-		142502-68-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphinic acid, P-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)-		731858-15-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silane, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-N,N,N',N',N',N'-hexamethyl-		186599-45-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-2-methyl-		136022-86-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)tripropoxy-		521084-64-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphonic acid, P- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-		80220-63-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanol, 3- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)thio]-		36880-07-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-, sodium salt (9CI)		92678-93-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)tris(1- methylethoxy)-		246234-80-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-, compd. with N,N- diethylethanamine (1:1) (9CI)		92678-96-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Ethanol, 2- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)amino]-		27607-42-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Dodecenal, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,1 2,12-eicosafuoro-		864551-40-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Dodecenal, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,1 2,12-eicosafuoro-(2Z)-		1383918-01-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Disiloxane, 1,3- bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-1,1,3,3- tetramethyl-		129498-18-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphonic acid, P- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,1 2,12,12-heneicosafuorododecyl)-		252237-39-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
3-Undecen-2-one, 4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11- hexadecafluoro-, (Z)-(9CI)		136909-85-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Oxirane, 2- (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- heptadecafluorononyl)-		38565-53-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-, dimethyl ester (9CI)		61726-43-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-10-isocyanato-		142010-50-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzene, 1-bromo-4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-		195324-88-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-		27619-90-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Oxirane, 2- (1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl)-		52835-16-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Decane, 10,10-diethoxy- 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		133377-48-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzene, 1-bromo-3- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-		340157-97-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,1 2,12,12-heneicosafuorododecyl)-, dimethyl ester (9CI)		61726-45-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Oxirane, 2- (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,1 1,11-heneicosafuoroundecyl)-		38565-54-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-		39108-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Ethanol, 2,2'- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)imino]bis-		27607-36-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Benzenemethanol, 4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-		356055-77-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Benzenemethanamine, 4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-		609816-23-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-10- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)thio]-		96497-21-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Dodecane, 12-azido- 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10- -heneicosafuoro-		145876-00-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanesulfonyl chloride,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafuoro-		27619-91-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, 1-(hydrogen sulfate), potassium salt (1:1)		1262446-13-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)		93857-45-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, 1-acetate		37858-04-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphonic acid, P- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-, diethyl ester		90146-96-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuoro-		120226-60-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuoro-, 1-(hydrogen sulfate), potassium salt (1:1)		1262446-14-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Ethanedithioic acid, S- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl) ester		125640-21-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
8,10- Heptadecanedione,1,1,1,2,2,3,3,4,4,5,5,6, 6,7,7,11,11,12,12,13,13,14,14,15,15,16,1 6,17,17,17-triacontafuoro-		36554-97-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,1 2,12,12-heneicosafuorododecyl)-, diethyl ester (9CI)		854095-13-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanaminium, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-N,N-bis(2-hydroxyethyl)- N-methyl-, iodide (1:1)		31841-41-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Disulfide, bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)		42977-21-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-, bis(1-methylethyl) ester (9CI)		90183-56-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphinic acid, bis(heptadecafluoroocetyl)- , sodium salt (9CI)		500776-69-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Decane, 10-(ethenylsulfonyl)- 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		93345-48-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-fluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl ester		96250-52-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Pyridinium, 1- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-,iodide (1:1)		25935-14-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Pyridinium, 1- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-,4- methylbenzenesulfonate (1:1)		61798-68-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl ester		15498-45-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:1)		93776-20-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuoro-, 1-(dihydrogen phosphate), ammonium salt (1:1)		93776-21-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, 1,1',1"-phosphate		149790-22-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phenol, 4- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)thio]-		142623-70-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuoro-, phosphate (3:1) (9CI)		106554-16-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphine, [4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]diphenyl-		462996-04-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenedioic acid (2Z)-, 1- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl) ester		54950-04-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenedioic acid (2E)-, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl) ester (9CI)		86130-60-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Benzoic acid, 4- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)oxy]-		188034-84-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2,8,9-Trioxa-5-aza-1- silabicyclo[3.3.3]undecane, 1- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-1-iododecyl)-		135587-17-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenedioic acid, 1- (1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl) ester		152682-85-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenedioic acid (2Z)-, 1- (1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl) ester		229957-05-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Benzenemethanol, 4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)- $\alpha,\alpha$ -diphenyl-		649561-66-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Iodine, bis(acetato- $\beta$ O)[4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]- (9CI)		882186-02-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, 1-(4- methylbenzenesulfonate)		113823-56-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphine, bis[4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]phenyl-		892154-91-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2- [[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl)methylamino]ethyl ester		93491-54-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Butanedioic acid, 2-methylene-, 1,4- bis(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl) ester		243977-25-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Glycine, N-[3- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)thio]-2- hydroxypropyl]-N-methyl-		93128-66-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphine, tris[3- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]-		342889-38-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzene, 1-[chloro[4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]phenylmethyl ]-4-methoxy-		865758-37-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
3-Pyridinecarboxylic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl ester		331716-84-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Butenedioic acid (2Z)-, 1,4- bis(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl) ester		234096-30-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Butenedioic acid (2E)-, 1,4- bis(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl) ester		934166-50-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzenesulfonamide, 4- [(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl)oxy]-		89932-76-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzene, 1- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- heneicosafuorododecyl)sulfonyl]- 4-(hexyloxy)-		1161917-33-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzene, 1-[chlorobis(4- methoxyphenyl)methyl]-4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-		865758-36-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Benzenemethanol, 4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-o,o-bis(4- methoxyphenyl)-		865758-47-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Palladium, dichlorobis[tris[3- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]phosphine-β P]-		343343-17-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2- [[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)sulfonyl]methylamino]ethyl ester		48077-95-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2- [[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- heneicosafuorododecyl)sulfonyl]methylamino]ethyl ester		72276-05-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
β-D-Glucopyranosiduronic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl		864551-34-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Carbonic acid, 2,5-dioxo-1-pyrrolidinyl [4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]methylester		556050-49-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Thymidine, 5'-O-[[4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)phenyl]bis(4- methoxyphenyl)methyl]-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphoramidite]		902456-09-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Cytidine, N-benzoyl-2'-deoxy-5'-O-[[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]bis(4-methoxyphenyl)methyl]-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphoramidite]		1401422-19-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Guanosine, 2'-deoxy-5'-O-[[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl][4-methoxyphenyl]phenylmethyl]-N-(2-methyl-1-oxopropyl)-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphoramidite]		1401422-22-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Guanosine, 2'-deoxy-5'-O-[[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]bis(4-methoxyphenyl)methyl]-N-(2-methyl-1-oxopropyl)-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphoramidite]		1401422-21-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Octane, 1,1,1,2,3,3,4,4,5,5,6,6-dodecafluoro-8-iodo-2-(trifluoromethyl)-		18017-20-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Octanol, 3,3,4,4,5,5,6,6,7,8,8-dodecafluoro-7-(trifluoromethyl)-		20015-46-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Nonanol, 4,4,5,5,6,6,7,7,8,9,9-dodecafluoro-2-iodo-8-(trifluoromethyl)-		16083-62-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Nonanol, 1-amino-4,4,5,5,6,6,7,7,8,9,9-dodecafluoro-8-(trifluoromethyl)-		58935-89-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Oxirane, 2-[2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)heptyl]-		24564-77-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,8,8-dodecafluoro-7-(trifluoromethyl)octyl ester		50836-65-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,8,8-dodecafluoro-7-(trifluoromethyl)octyl ester		50836-66-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenethioic acid, 2-methyl-, 5-[3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl] ester		30769-91-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,9,9-dodecafluoro-2-hydroxy-8-(trifluoromethyl)nonyl ester		16083-75-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 4,4,5,5,6,6,7,7,8,9,9-dodecafluoro-2-hydroxy-8-(trifluoromethyl)nonyl ester		16083-81-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phenol, 4-bromo-2-[4,4,5,5,6,6,7,7,8,9,9-dodecafluoro-8-(trifluoromethyl)nonyl]-		610778-18-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Fatty acids, C6-18, perfluoro, ammonium salts		72623-77-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reactionproducts with 1H-imidazole-1-propanamine, polyethylene-polypropyleneglycol and TDI homopolymer		332076-28-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reactionproducts with 1H-imidazole-1-propanamine and TDI homopolymer		332076-33-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reactionproducts with 1H-imidazole-1-propanamine, polyethylene glycol and TDI homopolymer		332076-34-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Alcohols, C8-14, γ-ω-perfluoro		68391-08-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alcohols, C7-22, ε-ω-perfluoro-, β-δ-fluoro		90622-43-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Tridecanol, 1,1'-[oxybis[(1-methyl-2,1-ethanediyloxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro- (9CI)		93776-01-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2,5,8,11,14,17,20,23,26,29-Decaoxadotetracontan-31-ol,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,42-heneicosafuoro-		93776-07-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Quaternary ammonium compounds, dimethyl(γ-ω-perfluoro-C8-14-β-alkenyl)[2-(sulfoxy)ethyl], inner salts		85631-40-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Quaternary ammonium compounds, (hydroxyethyl)dimethyl(γ-ω-perfluoro-C8-14-β-alkenyl), chlorides		91081-09-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Quaternary ammonium compounds, (hydroxyethyl)dimethyl(γ-ω-perfluoro-C8-14-β-alkenyl), Me sulfates (salts)		92129-34-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Ethanol, 2-(methylamino)-, N-(γ-ω-perfluoro-C8-14-β-alkenyl) derivs.		97660-44-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Betaines, N-(hydroxyethyl)-N-methyl-N-(2-sulfoethyl)-N-(1,1,2-trihydroperfluoro-C8-14-2-alkenyl)		98219-29-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Betaines, (hydroxyethyl)methyl(γ,ω-perfluoro-C8-14-β-alkenyl)(2-sulfoethyl)		115340-82-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Quaternary ammonium compounds, trimethyl(δ-ω-perfluoro-C8-14-β-alkenyl), chlorides		115535-36-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Quaternary ammonium compounds, diethylmethyl(γ-ω-perfluoro-C8-14-β-alkenyl), Me sulfates		127133-57-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Quaternary ammonium compounds, diethylmethyl(γ-ω-perfluoro-C8-14-β-alkenyl), tetraphenylborates		145477-02-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Quaternary ammonium compounds, diethylmethyl(γ-ω-perfluoro-C8-14-β-alkenyl), tetrafluoroborates		153325-45-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Propanedioic acid, mono(γ-ω-perfluoro-C8-12-alkyl) derivs., di-me esters		238420-68-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Propanedioic acid, mono(γ-ω-perfluoro-C8-12-alkyl) derivs., bis[4-(ethenoxy)butyl] esters		238420-80-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Fatty acids, C9-15-unsatd., γ-ω-perfluoro, Et esters, reaction products with(3-hydroxypropoxy)-terminated di-Me siloxanes, Me Et ketone oxime, polymethylenepolyphenylene isocyanate and polypropylene		510732-30-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with methyl 2-methyl-2-propenoate		93705-98-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, ε-ω-perfluoro-C8-22-alkyl esters, γ-δ-fluoro derivs.		91648-32-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-methyl-, 2-(acetyloxy)-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-octadecafluoro-11-(trifluoromethyl)dodecyl ester, homopolymer (9CI)		90062-89-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,2,4,5-Benzenetetracarboxylic acid, mixed 3-chloro-2-hydroxypropyl and γ-ω-perfluoro-C8-14-alkyl esters		68954-01-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide,		119973-85-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate		142636-88-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl 2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methyloxirane polymer with oxirane mono(2-methyl-2-propenoate), and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate		142636-90-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl 2-propenoate, 2-hydroxyethyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate		142636-91-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl 2-propenoate, block, peroxidized adipoyl chloride-triethylene glycol polymer-initiated		146289-38-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Bu acrylate, γ-ω-perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate, 2,2'-(1,2-diazenediyl)bis[2,4-dimethylpentanenitrile]-initiated		150135-57-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with δ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate		174125-96-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, C12-14-alkyl esters, polymers with Bu (1-oxo-2-propenyl)carbamate and δ-ω-perfluoro-C6-12-alkyl acrylate		178233-67-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Fatty acids, linseed-oil, γ-ω-perfluoro-C8-14-alkyl esters		178535-23-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with γ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate		186397-57-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, peroxidized adipoyl chloride-triethylene glycol polymer-initiated		193635-71-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with γ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate, acetates		196316-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, γ-ω-perfluoro-C6-16-alkyl esters, polymers with 1-(3,4-dichlorophenyl)-1H-pyrrole-2,5-dione and sodium 4-ethenylbenzenesulfonate (1:1)		202875-75-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethylmethacrylate, γ-ω-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate		203743-03-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and Me Et ketone oxime, polymers with 2-ethylhexyl acrylate, 2-hydroxyethyl acrylate and γ-ω-perfluoro-C8-20-alkyl acrylate		221455-72-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alcohols, C8-14, γ-ω-perfluoro, polymers with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]poly(difluoromethylene), methanol, stearylacrylate, stearyl methacrylate, 2,4-TDI and vinyl chloride		376364-33-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with γ-ω-perfluoro-C8-14-alkyl acrylate, acetates, N-oxides		479029-28-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
10,13,16,19-Tetraoxaococosadiene, tetraatriacontafluoro- (9CI)		84029-54-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) esters, polymers with N-(hydroxymethyl)-2-propanamide, γ-ω-perfluoro-C8-18-alkyl acrylate and vinyl chloride		502135-45-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymers with γ-ω-perfluoro-C6-16-alkyl acrylate and stearyl acrylate		503284-73-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, γ-ω-perfluoro-C6-16-alkyl esters, polymers with acrylonitrile, N-(butoxymethyl)-2-propanamide, polyethylene glycol dimethacrylate and polyethylene glycol methacrylate Me ether		503287-56-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Butenedioic acid, 2-methyl-, (2Z)-, polymers with γ-ω-perfluoro-C8-16-alkyl acrylate, stearyl acrylate and styrene		503296-97-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, polymers with γ-ω-perfluoro-C8-16-alkyl acrylate and stearyl acrylate		503297-86-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, polymers with C14-24-alkyl methacrylate, cyclohexyl methacrylate, 2-hydroxyethyl acrylate, γ-ω-perfluoro-C6-16-alkyl acrylate and 2-[[[[[1,3,3-trimethyl-5-[[[[[1-methylpropylidene)amino]oxy]carbonyl]amino]cyclohexyl]methyl]amino]carbonyl]oxy]ethyl methacrylate		503299-29-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-methyl-, 2-[[[1,3,3-trimethyl-5-[[[1-methylpropylidene)amino]oxy]carbonyl]amino]cyclohexyl]methyl]amino]carbonyl]oxy]ethyl ester, polymers with 2-ethylhexyl acrylate, 2-hydroxyethylacrylate and γ-ω-perfluoro-C6-16-alkyl acrylate		503299-50-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Alkyl iodides, C8-20, γ-ω-perfluoro, reaction products with potassiumacrylate		509086-57-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymers with maleicanhydride, γ-ω-perfluoro-C6-16-alkyl acrylate and 2,4,6-tris(2-propenyloxy)-1,3,5-triazine		510732-38-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, octadecyl ester, polymers with γ-ω-perfluoro-C8-14-alkyl acrylate		510732-48-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, polymers with ethylene dimethacrylate, ethylene oxide, nonadecyl acrylate, γ-ω-perfluoro-C6-16-alkyl acrylate and propylene oxide		510733-10-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, telomers with Et acrylate, 1-octanethiol and γ-ω-perfluoro-C6-16-alkyl acrylate		510734-75-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, γ-ω-perfluoro-C8-16-alkyl esters, polymers with ethyleneand N-(hydroxymethyl)-2-propenamide		511271-18-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymers with glycidylmethacrylate and γ-ω-perfluoro-C6-16-alkyl acrylate		511271-19-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with 2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]ethyl methacrylate, 14-hydroxy-3,6,9,12-tetraoxahexadec-1-yl methacrylate and γ-ω-perfluoro-C6-16-alkyl acrylate		512179-48-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymers with γ-ω-perfluoro-C8-16-alkyl acrylate and polyethylene glycol monoacrylate		515152-55-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, hydrogen phosphate, compd. with 2,2'-iminobis[ethanol](1:1) (9C1)		57677-98-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alkyl iodides, C8-14, γ-ω-perfluoro		85995-91-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alcohols, C8-14, γ-ω-perfluoro, reaction products with epichlorohydrin and propylene oxide, trimethylamine-quaternized		185630-70-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Sulfuric acid, mono(γ-ω-perfluoro-C6-12-alkyl) esters, ammonium salts		68516-17-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-[methyl[(γ-ω-perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl esters, reaction products with polyethylene glycolbis(2-mercaptoacetate)		68784-73-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, C4-8-alkyl esters, polymers with 2-[methyl[(γ-ω-perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-52-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2-Propenoic acid, 2-methyl-, C4-18-alkyl esters, polymers with 2-[methyl[(γ-ω-perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●			●		●	
2-Propenoic acid, 2-methyl-, C7-8-alkyl esters, polymers with 2-[methyl[(γ-ω-perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-54-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
2-Propenoic acid, 2-methyl-, C7-18-alkyl esters, polymers with 2-[methyl[(γ-ω-perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-55-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Sulfuric acid, mono(γ-ω-perfluoro-C8-12-alkyl) esters, ammonium salts		84238-62-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Sulfuric acid, mono(γ-ω-perfluoro-C8-14-alkyl) esters		85995-90-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Sulfuric acid, mono(γ-ω-perfluoro-C8-14-alkyl) esters, ammonium salts		101940-12-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Siloxanes and Silicones, hydroxy Me, Me octyl, Me (γ-ω-perfluoro C8-14-alkyl)oxy, ethers with polyethylene glycol mono-Me ether		170424-64-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Amines, C12-14-tert-alkyl, compds. with γ-ω-perfluoro-C6-12-alkylhydrogen phosphate (1:1)		206009-80-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Amines, C12-14-tert-alkyl, compds. with bis(γ-ω-perfluoro-C6-12-alkyl)hydrogen phosphate (1:1)		206009-81-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
1,4-Butanediol, 2,3-bis[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs., polymers with 1,6-diisocyanatotrimethylhexane and 2,2'-(methylimino)bis[ethanol]		68037-23-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Thiols, C6-12, γ-ω-perfluoro		68140-20-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Thiols, C10-20, γ-ω-perfluoro		68140-21-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
1,4-Butanediol, 2,3-bis[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs.		68187-24-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs.		68187-25-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Siloxanes and Silicones, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy Me, hydroxy Me, Me octyl, ethers with polyethylene glycol mono-Me ether		143372-54-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Siloxanes and Silicones, hydrogen γ-ω-perfluoro-C6-10-alkyl		160965-19-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Sulfonic acids, C6-12-alkane, γ-ω-perfluoro, ammonium salts		180582-79-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Sulfonic acids, C8-20-alkane, γ-ω-perfluoro, compds. with triethylamine		297175-71-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-, 2-hydroxy-3-[(γ-ω-perfluoro-C6-20-alkyl)thio]propyl ethers		70983-59-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs., chlorides		70983-60-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●
1-Propanol, 2,3-bis[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs.		70983-61-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●			●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,4-Butanediol, polymers with 2,3-bis[(γ-ω-perfluoro-C6-20-alkyl)thio]-1,4-butanediol, C36-alkylene diisocyanate and 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane		71205-28-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Acetic acid, bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.		71608-37-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Acetic acid, bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs., Me esters		71608-39-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Acetic acid, bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs., sodium salts		71608-40-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Bicyclo[2.2.1]heptane-2,3-dicarboxylic acid, 5-[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.		71608-43-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Chromium, bis[(γ-ω-perfluoro-C8-20-alkyl)thio]acetate chloro hydroxycplexes		71608-44-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Chromium, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio]pentanoate chlorohydroxy complexes		71608-45-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Chromium, chloro hydroxy 5-[(γ-ω-perfluoro-C8-20-alkyl)thio]bicyclo[2.2.1]heptane-2,3-dicarboxylate complexes		71608-46-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
4,7-Methanoisobenzofuran-1,3-dione, hexahydro-, 5-[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.		71608-58-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.		71608-60-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Propanamide, N-(1,1-dimethyl-3-oxobutyl)-, 3-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs.		71608-63-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Carbamic acid, N-[4-methyl-3-[(2-methyl-1-aziridinyl)carbonyl]amino]phenyl]-, 2-[[[3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl]thio]-1-[[[3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl]thio]methyl]ethyl ester		72779-05-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Disulfides, bis(γ-ω-perfluoro-C6-20-alkyl)		118400-71-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,3-Propanediol, 2,2-bis(bromomethyl)-, reaction products with ethanethiol-tetrafluoroethylene telomer		144468-31-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Fatty acids, C18-unsatd., dimers, diisocyanates, polymers with 2,3-bis(γ-ω-perfluoro-C4-18-alkyl)-1,4-butanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane and 2,2'-(methylimino)bis[ethanol]		68990-40-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Thiols, C4-20, γ-ω-perfluoro, reaction products with methylatedformaldehyde-1,3,5-triazine-2,4,6-triamine polymer		113089-67-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Alcohols, C8-14, γ-ω-perfluoro, reaction products with epichlorohydrin, polyethylene glycol mono-Me ether and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide		118102-37-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Alcohols, C8-14, γ-ω-perfluoro, reaction products with epichlorohydrin, tetrahydrofuran homopolymer and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide		118102-38-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Hexane, 1,6-diisocyanato-, homopolymer, γ-ω-perfluoro-C6-20-alc.-blocked		135228-60-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1,3-Propanediol, 2,2-bis(bromomethyl)-, reaction products with ethanethiol-tetrafluoroethylene telomer, polymers with 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexaneand 2,2'-(methylimino)bis[ethanol]		144468-32-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,3-Propanediol, 2,2-bis[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs.,phosphates		148240-86-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,3-Propanediol, 2,2-bis[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs.,phosphates		148240-88-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alcohols, C8-14, γ-ω-perfluoro, polymers with 1,6-diisocyanatohexane,ethylene glycol, glycidol and 2,4-TDI		253873-70-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecylester		26650-10-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanaminium, N-(carboxymethyl)-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl]amino]-N,N-dimethyl-, inner salt		34455-21-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanaminium, N-(carboxymethyl)-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)sulfonyl]amino]-N,N-dimethyl-, inner salt		34455-35-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphinic acid, bis(heneicosafuorodecyl)-(9CI)		52299-27-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, hydrogenphosphate, compd. with 2,2'-iminobis[ethanol] (1:1) (9CI)		57677-97-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alkenes, C4-20 α-, γ-ω-perfluoro		68155-04-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, methyl ester, polymer with3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate		88248-34-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-, compd. with N,N-diethylethanamine (9CI)		90146-97-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecylester, polymer with octadecyl 2-propenoate		90718-04-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Undecanol, 1,1'-[oxybis[(1-methyl-2,1-ethanediyloxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-(9CI)		93776-02-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2,5,8,11,14,17,20,23,26,29-Decaoxatetracontan-31-ol,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,40-heptadecafluoro-		93776-08-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanaminium, N-(2-carboxyethyl)-3-[[[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)amino]-N,N-dimethyl-, inner salt		93776-14-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Undecanol, 1-[2-(2-butoxyethoxy)ethoxy]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-		94158-61-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Aziridineethanol, α-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononyl)-		94159-85-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Undecanol, 1-(ethenyl-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-		94159-86-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Glycine, N-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)-N-methyl-, monopotassium salt (9CI)		94159-87-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-1-phenoxy-		94159-91-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenoic acid, 4-oxo-4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)amino]-, (Z)- (9CI)		97259-81-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, polymer with octadecyl 2-methyl-2-propenoate		104242-01-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,2-Nonanediol, 4,4,5,5,6,6,7,7,8,8,9,9,9-dodecafluoro-8-(trifluoromethyl)-, 1-(dihydrogen phosphate)		105416-14-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, polymer with ethenyltriethoxysilane (9CI)		106826-29-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,3-Isobenzofurandione, polymer with α-fluoro-ω-(oxiranylmethyl)poly(difluoromethylene) and (phenoxymethyl)oxirane (9CI)		107097-76-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Surflon 113 (9CI)		110070-82-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate (9CI)		110570-84-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate (9CI)		112310-55-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediyl), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, octadecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate (9CI)		112311-93-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate (9CI)		112328-98-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●	●	●	
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 2-(phosphonoxy)ethyl 2-methyl-2-propenoate, block (9CI)		113150-11-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecylester, polymer with rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI)		118570-85-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, octadecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate (9CI)		119973-84-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, block		121065-52-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
Siloxanes and Silicones, di-Me, 3-hydroxypropyl group-terminated, polymers with 2-butyne-1,4-diol-γ-ω-perfluoro C10-20 thiol reaction product and 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane		127133-54-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
Silane, trichloro(heptadecafluorodecyl)-		146443-00-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, ammonium salt (1:1)		149724-40-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Bu acrylate, γ-ω-perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate		150409-17-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with acrylonitrile, γ-ω-perfluoro-C8-14-alkyl acrylate, polyethylene glycol monomethacrylate and styrene		150409-18-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Me methacrylate, γ-ω-perfluoro-C8-14-alkyl acrylate, polyethylene glycol monomethacrylate and stearyl methacrylate		150409-19-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●
Thiols, C4-20, γ-ω-perfluoro, reaction products with hexakis(methoxymethyl)melamine and vinyl tert-decanoate		151686-30-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●															●	●	●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Silane, diethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10-heptadecafluorodecyl)methyl-		152992-46-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, butyl ester, polymer with3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-propenoate, 2- hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate,block (9CI)		154965-63-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Butanoic acid, 4-[[3- (dimethylamino)propyl]amino]-4-oxo-, 2 (or 3)-[(γ-ω-perfluoro-C3-14-alkyl)thio] derivs.		160336-21-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Alkyl iodides, C1-24, perfluoro		160402-15-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Quaternary ammonium compounds, bis(hydroxyethyl)methyl(δ-ω-perfluoro-β- hydroxy-C10-14-alkyl), iodides		160402-26-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Phosphoric acid, mono(perfluoro-C10-18- alkyl) esters, diammonium salts		160498-33-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,2-Benzenedicarboxylic acid, bis(γ-ω- perfluoro-1-methyl-C5-20-alkyl)esters		160709-28-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Silane, trichloro(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10-heptadecafluorodecyl)-,reaction products with ammonia		160994-74-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Imidodicarbonic diamide, N,N',2-tris(6- isocyanatohexyl)-, reaction productswith glycidol, hydrolyzed ethylene- pentafluoroiodoethane-tetrafluoroethylene telomer reaction product and stearyl alc.		162491-88-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Trisiloxane, 3- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)-1,1,1,3,5,5,5- heptamethyl-		163921-85-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Poly(oxy-1,2-ethanediyl), α,α',α''- [[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)silylidyne]tris(oxy(di methylsilylene)-3,1-propanediyl)]tris[ω- methoxy-		165967-96-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecylester, polymer with 1-ethenyl-4- [[undecafluorohexenyl]oxy]benzene, graft(9CI)		167229-03-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11- heptadecafluoro-,1,1'-(hydrogen phosphate)		170004-70-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Propanoic acid, 3-[(γ-ω-perfluoro-C6-18- alkyl)thio] derivs.		176590-84-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-propenoate, α-(2- methyl-1-oxo-2-propen-1-yl)-ω- methoxypoly(oxy-1,2-ethanediyl), α-(2- methyl-1-oxo-2-propen-1-yl)-ω-[[2- methyl-1-oxo-2-propen-1-yl]oxy]poly(oxy- 1,2-ethanediyl) and 3-[3,3,3-trimethyl- 1,1-bis(trimethylsilyl)oxy]-1- disiloxanyl]propyl 2-methyl-2-propenoate		176741-19-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, methylloxirane polymer with oxirane mono-2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediy) and 3-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]propyl 2-methyl-2-propenoate (9CI)		176894-23-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Alcohols, C1-20, reaction products with glycidol, γ-ω-perfluoro C8-14 alcs.and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide		182700-79-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with N-(hydroxymethyl)-2-methyl-2-propenamide and γ-ω-perfluoro-C10-16-alkylacrylate		200295-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, butyl ester, polymers with 2-ethylhexylmethacrylate, N-(hydroxymethyl)-2-methyl-2-propenamide and γ-ω-perfluoro-C10-14-alkyl methacrylate		200295-55-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and methylloxirane polymer with oxirane mono-2-propenoate (9CI)		200413-68-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate		200513-42-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Alkenes, C8-14 α, γ-ω-perfluoro		210432-72-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, γ-ω-perfluoro-C8-20-alkyl esters		212013-58-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, methylloxirane polymer with oxirane mono-2-propenoate butyl ether, and 2-propenoic acid (9CI)		214002-95-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group]-terminated, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl methacrylate, 3a,4,7,7a,?,?-hexahydro-4,7-methano-1H-indenyl acrylate and tricyclo[3.3.1.1.3,7]dec-1-yl methacrylate		218286-10-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Glycine, N,N-bis[2-hydroxy-3-(2-propen-1-yloxy)propyl]-, sodium salt(1:1), reaction products with ammonium hydroxide and 1,1,1,2,2-pentafluoro-2-iodoethane-tetrafluoroethylene telomer		220459-70-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and Me Etketone oxime, polymers with γ-ω-perfluoro-C8-20-alkyl acrylate and stearylacrylate		221455-57-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, γ-ω-perfluoro-C8-20-alkyl ester, polymers with acrylonitrile, polyethylene glycol dimethacrylate and polyethylene glycolmethacrylate Me ether		221455-61-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymers with acrylicacid-glycidyl Ph ether-TDI reaction product, γ-ω-perfluoro-C8-20-alkylacrylate and stearyl acrylate		221455-62-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-hydroxyethyl ester, polymers with γ-ω-perfluoro-C8-20-alkyl acrylate and stearyl acrylate		221455-63-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) ester, polymers with 2-hydroxyethyl methacrylate-5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane-Me Et ketone oxime reaction product, γ-ω-perfluoro-C8-20-alkyl acrylate and vinyl chloride		221455-64-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) ester, polymers with N,N-dimethyl-2-propenamide, γ-ω-perfluoro-C8-20-alkyl acrylate and vinylchloride		221455-67-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) ester, polymers with N-(hydroxymethyl)-2-propenamide, γ-ω-perfluoro-C8-20-alkyl acrylate and vinyl chloride		221455-71-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, methyl ester, polymer with γ-ω-perfluoro-C8-20-alkyl acrylate		221455-73-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Alcohols, C8-14, γ-ω-perfluoro, polymers with 5-amino-1,3,3-trimethylcyclohexanemethanamine, carbonic acid, 1,6-diisocyanatohexane,1,6-hexanediol, 1,1'-methylenebis[4-isocyanatocyclohexane] and trimethylolpropane		223586-53-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with γ-ω-perfluoro-C8-20-alkyl acrylate and polyethylene glycol monomethacrylate		224790-87-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, γ-ω-perfluoro-C8-20-alkyl esters, polymers with polyethylene glycol monomethacrylate and polypropylene glycol monomethacrylate		224790-97-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Butanedioic acid, 2-methylene-, 4-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl) ester		230295-05-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymers with glycidyl methacrylate and γ-ω-perfluoro-C6-20-alkyl acrylate, acetates(salts)		247047-61-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosfluorododecylester, polymer with N-(butoxymethyl)-2-methyl-2-propenamide, dodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-methyl-2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, octadecyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosfluorotetradecyl 2-methyl-2-propenoate (9CI)		247109-50-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl), $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI)		256488-93-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with N-(hydroxymethyl)-2-propenamide, $\gamma$ - $\omega$ -perfluoro-C8-16-alkyl acrylate and stearyl acrylate		260794-06-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with N-(hydroxymethyl)-2-propenamide, $\gamma$ - $\omega$ -perfluoro-C8-16-alkyl acrylate, stearyl acrylate and vinyl chloride		260794-09-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, isooctadecyl 2-propenoate, 2-methylloxirane polymer with oxirane mono-2-propenoate, and $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl)		263260-98-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Hexanedioic acid, dimethyl ester, polymers with 2,2-bis(bromomethyl)-1,3-propanediol-ethanethiol-tetrafluoroethylene telomer reaction products		277752-44-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecylester, homopolymer, syndiotactic (9CI)		287391-07-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, polymers with 2-ethylhexyl methacrylate, N-(hydroxymethyl)-2-propenamide and 2-[methyl[( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		304012-61-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl group]-terminated, polymers with 2-[[[5-[[[2-[[[5-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl]oxy]carbonyl]amino]-2-		321371-84-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, dodecyl ester, polymers with (chloromethyl)ethenylbenzene, N-(hydroxymethyl)-2-propenamide and $\gamma$ - $\omega$ -perfluoro-C10-14-alkyl acrylates		330809-58-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol- and 2-hydroxyethyl acrylate-blocked 2,4-TDI-trimethylolpropane polymer, Memethacrylate and octahydro-4,7-methano-1H-indenyl acrylate, tert-Bu 2-ethylhexaneperoxoate-initiated		339163-51-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
3-Cyclohexene-1-carboxylic acid, 6-[(di-2-propenylamino)carbonyl]-, (1R,6R)-rel-, reaction products with pentafluoroiodoethane-tetrafluoroethylene telomer		348137-34-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate		357924-15-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Alcohols, C8-14, γ-ω-perfluoro, polymers with 1,3-butanediol, 1,3-diisocyanatomethylbenzene and 2-ethyl-2-(hydroxymethyl)-1,3-propanediol		374551-53-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, telomer with 1-dodecanethiol, methyl 2-methyl-2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediyl) and α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI)		380843-06-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecylester, polymer with methyloxirane polymer with oxirane mono-2-propenoate,tert-Bu 2-ethylhexaneperoxoate-initiated		393582-46-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, octahydro-4,7-methano-1H-indenyl ester, polymers with γ-ω-perfluoro-C6-22-alkyl acrylate and polyethylene glycol methacrylate Meether, di-Me 2,2'-azobis[2-methylpropanoate]-initiated		393582-59-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, octadecyl ester, polymers with γ-ω-perfluoro-C6-22-alkylacrylate		393819-33-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1,4-Butanediol, polymer with 1,6-diisocyanatohexane, 2-ethyl-1-hexanol and γ-ω-perfluoro-C8-14-alc.-blocked		399026-30-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Propanaminium, 3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)sulfonyl]amino]-N,N,N-trimethyl-, 4-methylbenzenesulfonate (1:1)		438237-77-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5-furandione, γ-ω-perfluoro-C8-14-alkyl esters, tert-Bubenzencarboxperoxoate-initiated		459415-06-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propen-1-ol, reaction products with 1,1,1,2,2-pentafluoro-2-iodoethane-tetrafluoroethylene telomer, dehydroiodinated, reaction products withepichlorohydrin and triethylenetetramine		464178-90-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)thio]-2-methyl-, lithium salt (1:1)		476304-39-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate and octadecyl 2-propenoate (9CI)		477529-30-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Proline, 1-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)sulfonyl]-, lithium salt (9CI)		503431-63-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, isooctadecyl 2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl) and rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate, 2,2'-azobis[2-methylbutanenitrile]-initiated		503448-36-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecylester, polymer with α-(2-methyl-1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl), tert-Bu 2-ethylhexaneperoxoate-initiated		503621-60-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecylester, polymer with α-(2-methyl-1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl), di-Me 2,2'-azobis[2-methylpropanoate]-initiated		503621-79-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecylester, polymer with α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediyl), tert-Bu 2-ethylhexaneperoxoate-initiated		503621-80-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecylester, polymer with α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)], tert-Bu 2-ethylhexaneperoxoate-initiated		503621-81-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecylester, polymer with octahydro-4,7-methano-1H-indenyl 2-propenoate		504395-90-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymers with maleicanhydride, γ-ω-perfluoro-C8-20-alkyl acrylate and 2,4,6-tris(2-propenyloxy)-1,3,5-triazine		518045-14-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, polymer with butyl 2-propenoate and 2,5-furandione, γ-ω-perfluoro-C8-14-alkyl esters, potassium salts, tert-Bubenzenecarboperoxoate-initiated		524729-93-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
1,3-Butanediol, polymer with 1,3-diisocyanatomethylbenzene and 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol- and Me Et ketone oxime-blocked		644965-83-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, δ-ω-perfluoro-C9-15-alkyl esters		671756-62-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
Poly(difluoromethylene), α-(2-hydroxyethyl)-ω-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]- (9Cl)		761418-87-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecylester, polymer with α-(1-oxo-2-propenyl)-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)]		790697-52-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecylester, polymer with ethyloxirane homopolymer monoether with 1,2-propanediol mono(2-methyl-2-propenoate), tert-Bu 2-ethylhexaneperoxoate-initiated		831241-91-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	
2-Propenoic acid, mixed hexaesters with dipentaerythritol and 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]propanoic acid		878409-15-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●	●	●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs., polymers with 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl]-1,3-propanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2'-(methylimino)bis[ethanol]		1078142-10-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Thiols, C4-20, γ-ω-perfluoro, telomers with acrylamide and acrylic acid, sodium salts		1078712-88-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		1094598-90-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, polymers with 2-(dimethylamino)ethylmethacrylate, Me methacrylate, γ-ω-perfluoro-C8-16-alkyl acrylate and vinylpyrrolidone, 2,2'-(1,2-diazenediyl)bis[2-methylpropanenitrile]-initiated, acetates		1223402-68-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, polymer with butyl 2-propenoate and 2,5-furandione, γ-ω-perfluoro-C8-14-alkyl esters, tert-Bu 2-ethylhexaneperoxoate-initiated, compds. with 2-(dimethylamino)ethanol		1264198-78-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, α-(2-methyl-1-oxo-2-propen-1-yl)-ω-methoxypoly(oxy-1,2-ethanediy), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate, 2-[2-(2-propoxyethoxy)ethoxy]ethyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		1429174-38-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		1430799-96-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymers with γ-ω-perfluoro-C8-16-alkyl methacrylate, stearyl methacrylate and tridecylmethacrylate		1221681-75-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, 1-(hydrogen sulfate), ammonium salt (1:1)		63225-58-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1-(hydrogen sulfate), ammonium salt (1:1)		63225-57-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, reaction products with acetic acid (γ-ω-perfluoro-C8-10-alkyl)thio derivs. Bu esters and polyethylenimine		1374418-39-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers withN-(1,1-dimethyl-3-oxobutyl)-2-propenamido-, 2-ethylhexyl acrylate, γ-ω-perfluoro-C8-16-alkyl acrylate, stearyl acrylate and vinyl chloride, 2,2'-azobis[2-methylpropanimidamide] dihydrochloride-initiated		325966-78-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Methanol, reaction products with 1,6-diisocyanatohexane, ethylene, ethyleneoxide, iodoethane and tetrafluoroethylene		254889-79-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Imidodicarbonic diamide, N,N'-tris(6-isocyanatoethyl)-, reaction products with3-chloro-1,2-propanediol, ethylene, iodoethane and tetrafluoroethylene		254889-72-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Butanedioic acid, monopolyisobutylene derivs.,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester		253683-00-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
9-Octadecenoic acid (9Z)-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester		167289-73-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with maleicanhydride, 2-[[[(2-mercaptoethoxy)carbonyl]amino]ethyl]methacrylate, γ-ω-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate		333784-46-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with2,3-dihydroxypropyl methacrylate, γ-ω-perfluoro-C8-16-alkyl acrylate,polyethylene glycol methacrylate Me ether and polypropylene glycolmonomethacrylate		333784-44-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, reactionproducts with [(trimethylsilyl)oxy]-modified silica		254889-67-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Perfluoro compounds, C5-18		86508-42-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Tetradecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-pentacosafuoro-14-iodo-		30046-31-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●											●		●		●	
1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]-, innersalt		93776-15-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1)		93776-17-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Ethaneperoxoic acid, reaction products with3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl thiocyanate and3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoroocetyl thiocyanate		182176-52-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, lithium salt (1:1)		17125-58-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●		●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1-Pentadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15-heptacosafuoro-		176676-70-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Tridecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,13-tricosafuoro-		1545-59-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Undecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11 -nonadecafluoro-		87017-97-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Undecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11 -nonadecafluoro-		191852-87-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1- (dihydrogen phosphate)		54009-73-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10, 11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1- (dihydrogen phosphate), diammonium salt		63295-18-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10, 11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1- (dihydrogen phosphate), compd. with 2,2'- iminobis[ethanol] (1:2)		63295-19-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11- hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate, diammonium salt		63295-23-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Acetic acid, 2- [[[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10, 10- hexadeca fluoro-1- [(phosphonoxy)methyl]-9- (trifluoromethyl) decyl]oxy]-, ammonium salt (1:2)		63295-24-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Undecanol, 2-chloro- 4,4,5,5,6,6,7,7,8,8,9,9,10, 11,11,11- hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate		63295-22-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,11- heptadecafluoro-, dihydrogen phosphate, potassium salt		90179-37-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2,2',2"-nitritotris[ethanol] (1:3)		98005-85-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2-aminoethanol (1:3)		98005-84-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl) ester		1158182-60-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl) mono(3,3,4, 4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13, 13,14,14,14-pentacosafuorotetradecyl) ester		1578186-42-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,11,11,12,12,12- heneicosafuorododecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,12,12,13,13,14,14,14- pentacosafuorotetradecyl) ester		1158182-61-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,10,11, 11,11- hexadecafluoro-10-(trifluoromethyl)-, 1,1- (hydrogen phosphate)		63295-20-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Undecanol, 2-chloro- 4,4,5,5,6,6,7,7,8,8,9,9, 10,11,11,11- hexadecafluoro-10-(trifluoromethyl)-, hydrogen phosphate		63295-26-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Nonadecanol, 12,12,13,13,14,14,15,15,16, 16,17,17, 18,18,19,19,19-heptadecafluoro- dihydrogen phosphate		2343-53-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10- heptadecafluorodecyl bis(3,3,4,4,5,5,6,6, 7,7,8,8,8-tridecafluorooctyl) ester		1578186-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Phosphoric acid, bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10- heptadecafluorodecyl) 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester		1578186-56-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafuorododecyl 3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester		1578186-64-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafuorododecylbis (3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluorooctyl) ester		1578186-57-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Decanesulfonamide, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10- heptadecafluoro-N-[3-(phosphono oxy)propyl]-N-propyl-, sodium salt (1:2)		441765-20-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10- heptadecafluoro-1-(hydroxymethyl)decyl ester		146955-29-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,11- heptadecafluoro-2-hydroxyundecyl ester		76962-34-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Silane, tetrakis[2- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10- heptadecafluorodecyl)thio]ethyl]-		1189587-64-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		77117-48-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		1835250-28-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		182130-12-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		1835250-47-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		182130-14-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		182130-15-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		6145-05-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		931415-52-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		138472-76-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		117146-18-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		133310-73-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		137338-39-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Triacontane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		137338-40-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Dotriacontane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		137338-41-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		154478-87-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		1835251-22-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		1244062-17-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		250738-42-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		116177-54-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		200817-54-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		93454-70-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		125635-85-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		90499-29-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Docosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10-heneicosafuoro-		93454-71-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8, 13,13,14,14,15,15,16,16,17,17,18,18,19,19, 20,20,20-tetraatriacontafuoro-		133299-41-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,17, 17,18,18,19,19,20,20,21,21,22,22,23,23,2 4, 24,24-tetraatriacontafuoro-		100550-08-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
9-Tetracosene, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		1244062-16-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
1-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11- hexadecafluoro-10-(trifluoromethyl)-		31200-97-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
1-Nonanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- heptadecafluoro-		423-56-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
1-Decanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-nonadecafluoro-		307-37-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
1-Undecanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,11-heneicosafuoro-		307-46-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Nonanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- heptadecafluoro-		63967-40-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	
Decanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10- nonadecafluoro-		335-73-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●				●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Undecanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heneicosafuoro-		63967-42-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Ethanol, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]ethoxy]-		56900-98-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Propanol, [2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]methylethoxy]-		88243-13-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Ethanol, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]methylethoxy] methylethoxy]-		88243-12-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluoro-		55427-54-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluorodimethyl-		88271-22-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluorotetramethyl-		88243-14-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,25-heptadecafluoropentamethyl-		88243-15-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoro-		88247-39-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoropentamethyl-		88243-11-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoro hexamethyl-		88243-16-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15,18,21-Heptaohentriacontan-1-ol, 24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,31-heptadecafluoropentamethyl-		88243-10-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15,18,21,24-Octaoxatetracontan-1-ol, 27,27,28,28,29,29,30,30,31,31,31,32,32,33,33,33,34,34-heptadecafluoro-		88247-40-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15,18,21,24-Octaoxatetracontan-1-ol, 27,27,28,28,29,29,30,30,31,31,31,32,32,33,33,33,34,34-heptadecafluoro-octamethyl-		88243-17-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,25-heptadecafluoropentamethyl-, acetate		88243-09-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1,2-Propanediol, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]-		121500-31-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
11,14,17,20,23,26,29,32-Octaoxaotetracontan-33-one, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		67549-47-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Tridecanoic acid, 27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34-heptadecafluoro-3,6,9,12,15,18,21,24-octaoxatetracontan-1-yl ester		67535-33-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Oxirane, 2-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]methyl]-		114482-33-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●





5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,10-heptadecafluoro-1-decanethiol		76830-13-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-1-dodecanethiol		121913-10-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluoro-, potassium salt (1:1)		438237-73-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Butanedioic acid, 2-sulfo-, 1,4-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, sodium salt (1:1)		54950-06-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Acetic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)		441765-12-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		54207-62-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)		481050-04-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Ethanesulfonic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)		441765-14-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
2-Propanol, 1,3-bis[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl)thio]-		160819-47-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
2-Propanol, 1-[(2-dodecylhexadecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		160819-50-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
2-Propanol, 1-[(2-decyltetradecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		160819-49-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
2,5,8,11,14,17,20,23-Octaoxa-27-thiaheptatria contan-25-ol, 30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37-heptadecafluoro-		121912-28-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		727351-53-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 12-heneicosafuorododecyl)sulfinyl]-		1513864-17-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, chloride (1:1)		71940-07-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Ethanaminium, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl)thio]ethoxy]-N,N,N-trimethyl-, iodide (1:1)		71625-52-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Acetamide, N-[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		1513863-91-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●
Acetamide, N-[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuorododecyl) thio]-		1513863-92-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●					●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptafluorodecyl)thio]acetyl] amino]-N,N,N-trimethyl-		704870-51-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12,12-heneicosafuorodecyl)thio]acetyl] amino]-N,N,N-trimethyl-		1513864-01-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanaminium, N-ethyl-3-[[3-[(3,3,4,4,5, 5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) thio]-2-methyl-1-oxopropyl]amino]-N,N-dimethyl-, ethyl sulfate (1:1)		67333-62-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanaminium, N-(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)thio]acetyl] amino]-N,N-dimethyl-, inner salt		1513863-96-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanaminium, N-(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafuorododecyl) thio]acetyl] amino]-N,N-dimethyl-, inner salt		1513863-97-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) thio]-4-oxo-		1383438-89-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]-4-oxo-		1383438-90-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,10-heptafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-		755698-73-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl)thio]-1-oxopropyl] amino]-2-methyl-		690947-60-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,10-heptafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)		62880-96-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)		62880-98-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)sulfinyl]-		1513864-19-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,10-heptafluorodecyl) sulfinyl]-1-oxopropyl]amino]-2-methyl-		1513864-12-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl)sulfinyl]-1-oxopropyl]amino]-2-methyl-		1513864-11-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Decanesulfonamide, N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-		80475-33-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classifi cation	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1-Decanesulfonamide, N-[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		34455-23-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Dodecane sulfonamide, N-[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		34455-24-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Ethanaminium, N-(2-carboxyethyl)-2-[[[(3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]-N,N-dimethyl-, inner salt		34695-29-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Ethanaminium, N-(2-carboxyethyl)-2-[[[(3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl) sulfonyl]amino]-N,N-dimethyl-, inner salt		34695-31-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Glycine, N-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl]-N-propyl-, lithium salt		441765-18-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
β-Alanine, N-(2-carboxyethyl)-N-[6-[[[(3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]hexyl]-, dipotassium salt		98900-53-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
2-Propenoic acid, polymer with 2-ethenylinaphthalene and 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl 2-propenoate		934505-67-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Glycine, N-ethyl-N-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, ammonium salt		138473-79-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-(14-hydroxy-3,6,9,12-tetraoxatetradec-1-yl)-		89932-71-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Ethanaminium, N,N,N-trimethyl-2-[[2,2,3,3,4,4, 5,5,6,6,7,7,7-pentadecafluoro-1-oxooctyl]amino]-, chloride (1:1)		178766-44-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Octanamide, N-[3-(dimethylamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		376-23-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Pentanaminium, N,N,N-trimethyl-5-[[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl]amino]-, iodide (1:1)		91707-61-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Octanamide, N-[3-(dimethylamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		30295-53-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Pyridinium, 1-[2-[[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl]amino]ethyl]-, chloride (1:1)		308-01-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Pyridinium, 1-[2-[[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl]amino]ethyl]-, bromide (1:1)		331755-02-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Piperazinium, 1-(2-hydroxyethyl)-1-methyl-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, chloride (1:1)		103555-98-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Ethanesulfonic acid, 2-[ethyl(2,2,3,3,4,4,5,5,6,6, 7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, potassium salt (1:1)		57670-46-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
1-Propanesulfonic acid, 3-[[3-aminopropyl](2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-2-hydroxy-, sodium salt (1:1)		98900-76-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Benzenesulfonic acid, 4-[[[3-(methylamino)propyl](2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]methyl]-, sodium salt (1:1)		98900-75-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-[3-(trimethoxysilyl)propyl]-		98046-76-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
Poly(oxy-1,2-ethanediyl), α-[dimethoxy[3-[[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]-ω-[[dimethoxy[3-[[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]oxy]-		154380-30-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●				●
PFCAs (C9-C14), Linear and branched perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain, their salts and related substances, identified in rows 168 to 169.		-		REACH 規則 Annex XVII Restriction No.68 の適用除外を除く																		
PFCAs (C9-C14) and their salts	PFCA類(C9-C14)およびその塩		Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)dodecanoil fluoride		15811-52-6	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
Docosafluoro-11-(trifluoromethyl)dodecanoic acid		16486-96-7	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
Hexacosafuoro-13-(trifluoromethyl)tetradecanoic acid		18024-09-4	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
Perfluoro-n-undecanoic acid		2058-94-8	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●		●	●													
Perfluorononan-1-oic acid, sodium salt		21049-39-8	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●	●	●											●			
Perfluorododecanoic acid		307-55-1	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●		●	●						●							
Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate		307-71-1	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
Ammonium nonadecafluorodecanoate		3108-42-7	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●	●	●											●			
Decanoic acid, nonadecafluoro-		335-76-2	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●	●	●	●										●			
Ammonium octadecafluoro-9-(trifluoromethyl)decanoate		3658-63-7	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
Nonanoic acid, heptadecafluoro-		375-95-1	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●	●	●	●										●			
Perfluoromyristic acid		376-06-7	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●		●	●						●							
Ammonium tricosafuorododecanoate		3793-74-6	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
Sodium nonadecafluorodecanoate		3830-45-3	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●	●	●											●			
Perfluorononan-1-oic acid, ammonium salt		4149-60-4	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●	●	●											●			
2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)lauric acid, compound with ethylamine (1:1)		68015-87-2	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																
2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)myristoyl fluoride		68025-62-7	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Pentacosafuorotridecanoic acid		72629-94-8	Observation	REACH 規則 Annex XVII Restriction No.68 の適用除外を除く	25 ppb	●		●	●						●							
PFCAs (C9-C14) related substances	PFCA類(C9-C14)関連物質					●																
Alkyl iodides, C6-18, perfluoro		90622-71-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
C10-2 fluorotelomer alcohol; 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		865-86-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●														●		●
C10-2 telomer B iodide:		2043-54-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●														●		●
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-pentacosafuoro-12-iodododecane		307-60-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
2-Propenoic acid, gamma-omega-perfluoro-C8-14-alkyl esters		85631-54-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropentadecan-2-ol		94159-79-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafuoro-2-hydroxy-12-(trifluoromethyl)tridecyl phosphate		94200-50-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl dihydrogen phosphate		63295-28-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-icosafuoro-11-(trifluoromethyl)dodecyl methacrylate		74256-14-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecan-1-yl][bis(2-hydroxyethyl)]methylammonium iodide		93776-17-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-2-hydroxyheptadecyl dihydrogen phosphate		94200-43-8	Observation	All applications and products	260 ppb	●																
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl phosphate		94200-51-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
Nonacosafuoro-1-iodotetradecane		307-63-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
Eicosafuoro-10-iodo-2-(trifluoromethyl)decane		677-93-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodotetradecane		30046-31-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●														●		●
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.		68412-69-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
Amides, C7-19, alpha-omega-perfluoro-N,N-bis(hydroxyethyl)		90622-99-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl methacrylate		4980-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●														●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl acrylate		16083-87-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●			
Fatty acids, C7-13, perfluoro		68333-92-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
1,1'-[oxybis(1-methylethyleneoxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropentadecan-2-ol]		93776-00-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl dihydrogen phosphate		94158-70-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl phosphate		94200-47-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Henicosafuoro-10-iododecane		423-62-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Nonadecafluoro-9-iodononane		558-97-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Octacosafuoro-14-iodo-2-(trifluoromethyl)tetradecane		3248-63-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl methacrylate		6014-75-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafuoro-2-hydroxy-12-(trifluoromethyl)tridecyl dihydrogen phosphate		63295-27-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-nonacosafuoro-16-iodohexadecane		65510-55-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
1-(Carboxylatomethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)piperazinium; Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)-, hydroxide, inner salt		71356-38-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl methacrylate		74256-15-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
(2-carboxylatoethyl)(dimethyl)[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]propyl]mmonium		93776-15-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Bis(2-hydroxyethyl)methyl(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)ammonium iodide		93776-16-0	Observation	All applications and products	260 ppb	●																
1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)pentadecan-2-ol		94159-82-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl methacrylate		2144-54-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl acrylate		17741-60-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Alkyl iodides, C4-20, gamma-omega-perfluoro		68188-12-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●			
(2-carboxylatoethyl)(dimethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)amino]propyl]ammonium		93776-12-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafuoro-12-(trifluoromethyl)tridecan-1-ol		94159-83-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl dihydrogen phosphate		94200-42-7	Observation	All applications and products	260 ppb	●																
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-2-hydroxyheptadecyl phosphate		94200-48-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoic acid		1765-48-6	Observation	All applications and products	260 ppb	●																
Bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl] hydrogen phosphate		1895-26-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl acrylate		52956-82-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuoroheptadecanol		60699-51-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodoundecane		65510-56-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
2-Propenoic acid, perfluoro-C8-16-alkyl esters		85681-64-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts		93062-53-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)dodecane		3248-61-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecanol		39239-77-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb Intentionally added amounts must be reported to EPA	●												●		●		●
Carboxylic acids, C7-13, perfluoro, ammonium salts		72968-38-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Fatty acids, C7-19, perfluoro		91032-01-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
(2-carboxylatoethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl)amino]propyl]dimethylammonium		93776-13-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Bis(2-hydroxyethyl)methyl[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]ammonium iodide		94159-76-9	Observation	All applications and products	260 ppb	●																
1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuorotridecan-2-ol		94159-80-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p pm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl phosphate		94200-46-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●											●		●			
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate		65104-45-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
2H-Pyran, 2,2,3,3,4,4,5,5,6,6-nonafluorotetrahydro-6-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluorononyl)-		68155-54-4	Observation	All applications and products	260 ppb	●																
Alkyl iodides, C10-12, .gamma.-.omega.-perfluoro		68390-33-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		115592-83-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and perfluoro-C8-14-alkyl acrylate		125328-29-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and ?-?-perfluoro-C8-14-alkyl acrylate		129783-45-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and ?-?-perfluoro-C8-14-alkyl acrylate		144031-01-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
C9-C14 PFCA salts and precursors		NA	Observation	All applications and products	260 ppb	●																
Undecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafuoro-11-iodo-		307-50-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Pentadecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacontafuoro-15-iodo-		335-79-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
Tridecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heptacosafuoro-13-iodo-		376-04-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	PFOA-related substances 1000ppb	●												●		●		
PFOS, Perfluorooctane sulfonates C8F17SO2X (X = OH, Metal salt, halide, amide, and other derivatives including polymers), all members	PFOS、パーフルオロオクタンスルホン酸塩 C8F17SO2X (X = OH、金属塩、ハロゲン化合物、アミド、およびポリマーを含むその他の誘導体)、全て					●																
Perfluorooctane sulfonate acid	パーフルオロオクタンスルホン酸(PFOS)	1763-23-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●						●						●		●	●	
Perfluorooctane sulfonate anion	パーフルオロオクタンスルホン酸アニオン	45298-90-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●												●				



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Perfluoro-1-octanesulfonyl fluoride	ペフルロオクタンスルホン酸フルオライド (PFOSF)	307-35-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●							●							●		
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)- sulfonyl]amino]ethyl acrylate and vinylidene chloride	2-メチル[(ペフルロアルキル(炭素数4-8) スルホン酸)アミノ]エチルアクリレート、塩化ビニルモノマー混合物の2-メチルアクリレート	306975-62-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●	●															
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	グリシン、N-エチル-N-[(ヘプタデカフルオロオクチル)スルホン酸]エチルカリウム塩	2991-51-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●	●															
Perfluorooctane sulfonate potassium salt	ペフルロオクタンスルホン酸カリウム	2795-39-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●							●								●	
Perfluorooctane sulfonate ammonium salt	ペフルロオクタンスルホン酸アンモニウム	29081-56-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●							●								●	
Perfluorooctane sulfonate lithium salt	リチウムペフルロオクタンスルホン酸	29457-72-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●							●								●	
Tetraethylammoniumheptadecafluorooctansulfonate	ヘプタデカフルオロオクタンスルホン酸テトラエチルアンモニウム	56773-42-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●							●								●	
Sodium = perfluoro (octane-1-sulfonate)		4021-47-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50								●								●	
Compound of 2,2'-iminodiethanol and perfluorooctane-1-sulfonic acid (1:1)		70225-14-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50								●								●	
Piperidin-1-ium = perfluorooctane-1-sulfonate		71463-74-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50								●								●	
Magnesium bis (perfluorooctane-1-sulfonate)		91036-71-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50								●								●	
Didecan-1-yl (dimethyl) ammonium = perfluorooctane-1-sulfonate		251099-16-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50								●								●	
PFHxS, Perfluorohexane-1-sulphonic acid and its salts and PFHxS Related Substances, identified in rows 172 to 173.		-																				
PFHxS and its salts	PFHxSおよびその塩					●																
Perfluorohexane-1-sulphonic acid		355-46-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
Perfluorohexane-1-sulphonic acid, ammonium salt		68259-08-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
Perfluorohexane-1-sulphonic acid, potassium salt		3871-99-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
PFHxS related substances	PFHxS関連物質					●																
1-Hexanesulfonyl bromide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		111393-39-6	Observation	All applications and products	1,000 ppb	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro- N,N-dimethyl-		1270179-82-2	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N,N-diethyl- 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-		1270179-93-5	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl(perfluoro-C4-8- alkyl)sulfonyl]amino]ethyl methacrylate		127133-66-8	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N- methyl-N-(2-oxiranylmethyl)		129813-71-4	Observation	All applications and products	1,000 ppb	●																
â-Alanine, N-[3-(dimethylamino)propyl]-N- [[1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]-		141607-32-1	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-N- methyl-		1427176-17-7	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro- N,N-bis(2-methoxyethyl)-		1427176-20-2	Observation	All applications and products	1,000 ppb	●																
Benzenamine, 4- [[1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]-		147029-28-5	Observation	All applications and products	1,000 ppb	●																
Fatty acids, C18-unsatd., trimers, 2- [methyl(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]amino]ethyl esters		148240-80-6	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N- (hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol		148684-79-1	Observation	All applications and products	1,000 ppb	●																
Benzene, 1-fluoro-4- [[1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]-		149652-30-2	Observation	All applications and products	1,000 ppb	●																
Benzoic acid, 2,3,4,5-tetrachloro-6-[[3- hydroxyphenyl]amino]carbonyl]-, perfluoro-C6-8-alkanesulfonates (esters), monopotassium salts		160305-97-5	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, butyl ester, polymers with 2-[methyl(perfluoro-C4-8- alkyl)sulfonyl]amino]ethyl acrylate		160336-17-4	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N- ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate		160901-25-7	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N- ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol, Me Et ketone oxime and polymethylenepolyphenylene isocyanate		160901-26-8	Observation	All applications and products	1,000 ppb	●																
Fatty acids, C18-unsatd., trimers, 2- [methyl(perfluoro-C4-8- alkyl)sulfonyl]amino]ethyl esters		161074-58-4	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N- (3-chloro-2-hydroxypropyl)-N-methyl		1645842-67-6	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C7-8-alkane, perfluoro, N- ethyl-N-(hydroxyethyl), reaction products with 1,3-bis(isocyanatomethyl)benzene and N-butyl-1-butanamine		1645850-46-9	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C7-8-alkane, perfluoro, N- ethyl-N-(hydroxyethyl), reaction products with 1,3-bis(isocyanatomethyl)benzene		1645852-09-0	Observation	All applications and products	1,000 ppb	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Siloxanes and Silicones, di-Me, Bu group- and 3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated, telomers with acrylic acid, di-Me, Me 3-mercaptopropyl siloxanes, Me acrylate, Me methacrylate and 2-[methyl[(perfluoro-c4-8-alkyl)sulfonyl]amino]ethyl acrylate, 2,2'-(1,2-diazenediyl)bis[2-methylpropanenitrile]-initiated		1645852-10-3	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, polymers with lauryl acrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate		1648534-82-0	Observation	All applications and products	1,000 ppb	●																
Poly(oxy-1,2-ethanediyl), á-[2-(methylamino)ethyl]-ù-hydroxy-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., C12-16-alkyl ethers		1648539-69-8	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-(methylamino)ethyl ester, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., polymers with propene		1648540-20-8	Observation	All applications and products	1,000 ppb	●																
Benzene, 1-nitro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		171561-95-8	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt (1:1)		178094-71-8	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked		178535-22-3	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl], potassium salts		179005-06-2	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl]		179005-07-3	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		1893-52-3	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid		192662-29-6	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with poly(Bu acrylate) and polyethylene-polypropylene glycol mono-Bu ether		222716-67-8	Observation	All applications and products	1,000 ppb	●																
Pyridinium, 1-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, inner salt		254889-10-6	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		30295-56-8	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxyoctadecanoic acid and 2,4-TDI, ammonium salts		306973-47-7	Observation	All applications and products	1,000 ppb	●																
Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl]		306974-19-6	Observation	All applications and products	1,000 ppb	●																
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group]-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearyl methacrylate		306974-28-7	Observation	All applications and products	1,000 ppb	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether		306974-45-8	Observation	All applications and products	1,000 ppb	●																	
Fatty acids, C18-unsatd., dimers, 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters		306974-63-0	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride		306975-62-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	●	●											●					
Poly(oxy-1,2-ethanediyl), á-hydro-ù-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides-blocked		306975-84-8	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamide, 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride		306975-85-9	Observation	All applications and products	1,000 ppb	●																	
1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-propen-1-yl)oxy]ethyl]-, bromide (1:1), polymers with Bu acrylate, Bu methacrylate and 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate		306976-25-0	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulfonamides-blocked		306976-55-6	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, telomer with 2-[ethyl(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate and 1-octanethiol, N-oxides		306977-10-6	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolyzed, compds. with 2,2'-(methylimino)bis[ethanol]		306977-58-2	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride		306978-04-1	Observation	All applications and products	1,000 ppb	●																	
Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides- and stearyl alc.-blocked		306978-65-4	Observation	All applications and products	1,000 ppb	●														●			
Poly(oxy-1,2-ethanediyl), á-[2-(methylamino)ethyl]-ù-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs.		306979-40-8	Observation	All applications and products	1,000 ppb	●																	
Sulfonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediy]bis[(2-oxo-3,5-oxazolidinediyl)methylene]bis[N-methyl-		306980-27-8	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-		34455-03-3	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		355-46-4	Observation	All applications and products	1,000 ppb	●	●	●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt (1:1)		3871-99-6	Observation	All applications and products	1,000 ppb	●	●	●															
1-Propanaminium, 3-[[[(carboxymethyl)((1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl)amino]-N,N,N-trimethyl-, inner salt		38850-52-1	Observation	All applications and products	1,000 ppb	●																	
1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-3-[[3-sulfofpropyl][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, inner salt		38850-58-7	Observation	All applications and products	1,000 ppb	●																	
1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-		38850-60-1	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		41997-13-1	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		423-50-7	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-[ethyl[[perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl ester, polymers with polyethylene glycol acrylate Me ether		504396-13-8	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		50598-28-2	Observation	All applications and products	1,000 ppb	●																	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl group-terminated, reaction products with Me Et ketone oxime, 2-mercaptoethanol, 2-[methyl[[perfluoro-C3-8-alkyl)sulfonyl]amino]ethyl acrylate, polymethylene polyphenylene isocyanate and polypropylene glycol		507225-08-3	Observation	All applications and products	1,000 ppb	●																	
1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, chloride (1:1)		52166-82-2	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)		55120-77-9	Observation	All applications and products	1,000 ppb	●		●															
1-Hexanesulfonyl chloride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		55591-23-6	Observation	All applications and products	1,000 ppb	●																	
Poly(oxy-1,2-ethanediyl), á-[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl]-ú-hydroxy-		56372-23-7	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-2-propen-1-yl-		67584-48-9	Observation	All applications and products	1,000 ppb	●																	
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)		67584-53-6	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		67584-57-0	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		67584-61-6	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		67906-70-1	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester, polymer with octadecyl 2-propenoate and 2-propenoic acid		67906-71-2	Observation	All applications and products	1,000 ppb	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, 2-methyl-, 4- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]amino]butyl ester		67939-61-1	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N,N'- [phosphinicobis(oxy-2,1-ethanediyl)]bis[N- ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-		67939-92-8	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N- [2-(phosphonoxy)ethyl]-		67969-65-7	Observation	All applications and products	1,000 ppb	●																
Hexane, 1-(ethenylsulfonyl)- 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		680187-85-3	Observation	All applications and products	1,000 ppb	●																
Hexane, 1-(ethenylsulfonyl)- 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		680187-86-4	Observation	All applications and products	1,000 ppb	●																
Carbamic acid, N,N'-(4-methyl-1,3- phenylene)bis-, bis[2-[ethyl[(perfluoro-C4- 8-alkyl)sulfonyl]amino]ethyl] ester		68081-83-4	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoroethyl)sulfonyl]amino]ethyl ester, telomer with 2-[ethyl[(1,1,2,2,3,3,4,4,4- nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl- 2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoroheptyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,5- undecafluoropentyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2-methyloxirane polymer with oxirane di-2-propenoate, 2-methyloxirane polymer with oxirane mono-2-propenoate and 1-octanethiol		68227-87-2	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2- [[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoroethyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4- nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, â-(2-methyl-1-oxo-2-propen-1-yl)- hydroxypoly(oxy-1,2-ethanediyl), â-(2-methyl-1- oxo-2-propen-1-yl)- [[[(2-methyl-1-oxo-2-propen-1- yl)oxy]poly(oxy-1,2-ethanediyl), 2- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoroheptyl)sulfonyl]amino]ethyl 2- propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]amino]ethyl 2- propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5- undecafluoropentyl)sulfonyl]amino]ethyl 2- propenoate and â-(1-oxo-2-propen-1-yl)- methoxypoly(oxy-1,2-ethanediyl)		68227-94-1	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, butyl ester, telomer with 2- [[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoroethyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4- nonafluorobutyl)sulfonyl]amino]ethyl 2- propenoate, â-(2-methyl-1-oxo-2-propen-1-yl)- hydroxypoly(oxy-1,4-butanediyl), â-(2- methyl-1-oxo-2-propen-1-yl)- [[[(2-methyl-1- oxo-2-propen-1-yl)oxy]poly(oxy-1,4- butanediyl), 2- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoroheptyl)sulfonyl]amino]ethyl 2- propenoate, 2- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]amino]ethyl 2- propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5- undecafluoropentyl)sulfonyl]amino]ethyl 2- propenoate and 1-octanethiol		68227-96-3	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 4- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]amino]butyl ester		68227-98-5	Observation	All applications and products	1,000 ppb	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2-Propenoic acid, ethyl ester, polymer with 4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]butyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butyl 2-propenoate, δ-(2-methyl-1-oxo-2-propen-1-yl)-ú-hydroxypoly(oxy-1,4-butanediyl), δ-(2-methyl-1-oxo-2-propen-1-yl)-ú-hydroxypoly(oxy-1,2-ethanediyl), δ-(2-methyl-1-oxo-2-propen-1-yl)-ú-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,4-butanediyl), δ-(2-methyl-1-oxo-2-propen-1-yl)-ú-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl), 4-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]butyl 2-propenoate and 4-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]butyl 2-propenoate		68228-00-2	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(4-hydroxybutyl)-N-methyl-		68239-74-7	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1)		68259-08-5	Observation	All applications and products	1,000 ppb	●	●	●															
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-methyl-		68259-15-4	Observation	All applications and products	1,000 ppb	●																	
Poly[oxy(methyl-1,2-ethanediyl)], δ-[2-ethyl[[1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl]-ú-hydroxy-		68259-38-1	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(phenylmethyl)-		68298-09-9	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-[[[[5-[[[2-ethyl[[tridecafluoroheptyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester (9CI)		68298-74-8	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-[[[[5-[[[2-ethyl[[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate, 2-[[[[5-[[[2-ethyl[[1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate, 2-[[[[5-[[[2-ethyl[[1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, 2-[[[[5-[[[2-ethyl[[1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, 2-[[[[5-[[[2-ethyl[[1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, 2-[[[[5-[[[2-ethyl[[1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, 2-[[[[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol		68298-78-2	Observation	All applications and products	1,000 ppb	●																	
Benzenesulfonic acid, [[[[[1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]methyl]-, sodium salt (1:1)		68299-21-8	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]butyl ester, telomer with butyl 2-propenoate, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, δ-(2-methyl-1-oxo-2-propen-1-yl)-ú-hydroxypoly(oxy-1,4-butanediyl), δ-(2-methyl-1-oxo-2-propen-1-yl)-ú-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,4-butanediyl), δ-(2-methyl-1-oxo-2-propen-1-yl)-ú-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl), 4-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 4-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 4-[[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol		68299-39-8	Observation	All applications and products	1,000 ppb	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
2-Propenoic acid, eicosyl ester, polymer with 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and octadecyl 2-propenoate		68329-56-6	Observation	All applications and products	1,000 ppb	●																
Sulfonic acids, C6-12-alkane, perfluoro, potassium salts		68391-09-3	Observation	All applications and products	1,000 ppb	●																
Glycine, N-ethyl-N-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]-, sodium salt (1:1)		68555-70-4	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-		68555-75-9	Observation	All applications and products	1,000 ppb	●																
Polymer based on 67584-55-8		68555-90-8	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, 2-[ethyl[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate		68555-91-9	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate		68555-92-0	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-chloro-1,3-butadiene, 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate		68568-77-4	Observation	All applications and products	1,000 ppb	●																



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[(2-methyl-1-oxo-2-propenyl)-2-hydroxypoly(oxy-1,2-ethanediy)]], 2-[(2-methyl-1-oxo-2-propenyl)-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediy)], 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate (9CI)		68586-13-0	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, telomer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[(2-methyl-1-oxo-2-propenyl)-2-hydroxypoly(oxy-1,2-ethanediy)], 2-[(2-methyl-1-oxo-2-propenyl)-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediy)], 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol		68586-14-1	Observation	All applications and products	1,000 ppb	●																	
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with TDI		68608-13-9	Observation	All applications and products	1,000 ppb	●																	
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]		68608-14-0	Observation	All applications and products	1,000 ppb	●																	
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanedisulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl alc.		68649-26-3	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate		68797-76-2	Observation	All applications and products	1,000 ppb	●																	
Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]oxy]phenyl]amino]carbonyl]-, potassium salt (1:1)		68815-72-5	Observation	All applications and products	1,000 ppb	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
2-Propenoic acid, 2- [[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl)sulfonyl]methylamino]et hyl ester, polymer with 2- [methyl[(1,1,2,2,3,3,4,4,4,4- nonafluorobutyl)sulfonyl]amino]ethyl 2- propenoate, 2- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoroheptyl)sulfonyl]amino]ethyl 2- propenoate, 2- [methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoroheptyl)sulfonyl]amino]ethyl 2- propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5- undecafluoropentyl)sulfonyl]amino]ethyl 2- propenoate and δ-(1-oxo-2-propen-1-yl)-ù- methoxypoly(oxy-1,2-ethanediy)		68867-60-7	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2- [ethyl[(1,1,2,2,3,3,4,4,4,4- nonafluorobutyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoroheptyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoroheptyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,5- undecafluoropentyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 1-octanethiol and δ-(1- oxo-2-propen-1-yl)-ù-methoxypoly(oxy-1,2- ethanediy)		68867-62-9	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, 2-methyl-, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2- [ethyl[(1,1,2,2,3,3,4,4,4,4- nonafluorobutyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoroheptyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoroheptyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(1,1,2,2,3,3,4,4,5,5,5- undecafluoropentyl)sulfonyl]amino]ethyl 2- methyl-2-propenoate and 2-methyl-1,3- butadiene		68877-32-7	Observation	All applications and products	1,000 ppb	●																	
Chromium, diaquatetrachloro-[N-ethyl-N- [(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoroheptyl)sulfonyl]glycinato-êO:ê O']]-i-hydroxybis(2-propanol)di-		68891-98-5	Observation	All applications and products	1,000 ppb	●																	
2-Propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2- [[[(heptadecafluorooctyl)sulfonyl]methylami no]ethyl acrylate, 2- [methyl[(nonafluorobutyl)sulfonyl]amino]e thyl acrylate, 2- [methyl[(pentadecafluoroheptyl)sulfonyl]a mino]ethyl acrylate, 2- [methyl[(tridecafluoroheptyl)sulfonyl]amino ]ethyl acrylate, 2- [methyl[(undecafluoropentyl)sulfonyl]amin o]ethyl acrylate, polyethylene glycol acrylate Me ether and stearyl acrylate		68909-15-9	Observation	All applications and products	1,000 ppb	●																	
Glycine, N-ethyl-N- [(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoroheptyl)sulfonyl]-		68957-32-4	Observation	All applications and products	1,000 ppb	●																	
Glycine, N-ethyl-N- [(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoroheptyl)sulfonyl]-, ethyl ester		68957-53-9	Observation	All applications and products	1,000 ppb	●																	
1-Propanaminium, N,N,N-trimethyl-3- [[[(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoroheptyl)sulfonyl]amino]-, iodide (1:1)		68957-58-4	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonamide, N-[3- (dimethylamino)propyl]- 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, hydrochloride (1:1)		68957-61-9	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)		70225-16-0	Observation	All applications and products	1,000 ppb	●		●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, sulfate (2:1)		70248-52-1	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate		70776-36-2	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, 2-[[[2-methyl-5-[[[4-[methyl[(tridecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl ester (9C1)		70900-36-6	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, 2-[[[5-[[[4-[[[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]butoxy]carbonyl]amino]-2-methyl]oxy]propyl ester, toluene with butyl 2-propenoate, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carboxyl]oxy]propyl 2-methyl-2-propenoate and 1-octanethiol		70900-40-2	Observation	All applications and products	1,000 ppb	●																
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethylbenzene, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate and 2-propenoic acid		71487-20-2	Observation	All applications and products	1,000 ppb	●																
1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]-2-hydroxy-, sodium salt (1:1)		73772-32-4	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, acetate (1:1)		73772-33-5	Observation	All applications and products	1,000 ppb	●																
1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-		73772-34-6	Observation	All applications and products	1,000 ppb	●																
Benzene, 1-chloro-4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]-		76848-59-4	Observation	All applications and products	1,000 ppb	●																
1H-Benzimidazolium, 1,3-diethyl-2-methyl-5-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]-, 4-methylbenzenesulfonate (1:1)		76848-68-5	Observation	All applications and products	1,000 ppb	●																
1-Propanesulfonic acid, 3-[methyl[3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]propyl]amino]-, sodium salt (1:1)		80621-17-6	Observation	All applications and products	1,000 ppb	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
1-Propanaminium, N-(2-hydroxyethyl)-3- [[2-hydroxy-3- sulfopropyl]](1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]amino]-N,N- dimethyl-, hydroxide, sodium salt (1:1:1)		81190-38-7	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, sodium salt (1:1)		82382-12-5	Observation	All applications and products	1,000 ppb	●		●															
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-N- (2-hydroxyethyl)-N-propyl-		85665-64-1	Observation	All applications and products	1,000 ppb	●																	
Glycine, N-propyl-N- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)		85665-66-3	Observation	All applications and products	1,000 ppb	●																	
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, zinc salt (2:1)		86525-30-6	Observation	All applications and products	1,000 ppb	●																	
Thiophene, 2-[2- [[tridecafluorohexyl)sulfonyl]ethenyl]-		86525-43-1	Observation	All applications and products	1,000 ppb	●																	
Furan, 2-[2-[[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethenyl]-		86525-48-6	Observation	All applications and products	1,000 ppb	●																	
Benzene, 1-methyl-4-[2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethenyl]-		86525-51-1	Observation	All applications and products	1,000 ppb	●																	
Benzene, 1-methoxy-4-[2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethenyl]-		86525-52-2	Observation	All applications and products	1,000 ppb	●																	
Thiophene, 2-[1-(phenylthio)-2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethyl]-		89863-48-9	Observation	All applications and products	1,000 ppb	●																	
Furan, 2-[1-(phenylthio)-2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethyl]-		89863-49-0	Observation	All applications and products	1,000 ppb	●																	
Benzene, 1-methyl-4-[1-(phenylthio)-2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethyl]-		89863-50-3	Observation	All applications and products	1,000 ppb	●																	
Thiophene, 2-[1-(nitromethyl)-2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethyl]-		89863-55-8	Observation	All applications and products	1,000 ppb	●																	
Furan, 2-[1-(nitromethyl)-2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethyl]-		89863-56-9	Observation	All applications and products	1,000 ppb	●																	
2,4-Pentanedione, 3-[1-(2-thienyl)-2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethyl]-		89863-63-8	Observation	All applications and products	1,000 ppb	●																	
2,4-Pentanedione, 3-[1-(2-furanyl)-2- [[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]ethyl]-		89863-64-9	Observation	All applications and products	1,000 ppb	●																	
Sulfonamides, C4-8-alkane, perfluoro, N- (hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)		91081-99-1	Observation	All applications and products	1,000 ppb	●																	
Isoxazolidine, 4-(4-methoxyphenyl)-2- methyl-5-[[1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorohexyl)sulfonyl]-		93416-31-0	Observation	All applications and products	1,000 ppb	●																	
Sulfonic acids, C6-12-alkane, perfluoro		93572-72-6	Observation	All applications and products	1,000 ppb	●																	
Sulfonamides, C4-8-alkane, perfluoro, N- [4,7-dimethyl-4-[[1- methylpropylidene)amino]oxy]-3,5-dioxa- 6-aza-4-silanon-6-en-1-yl]-N-ethyl		944578-05-6	Observation	All applications and products	1,000 ppb	●																	
Phenol	フェノール	108-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Phenol, 2,4-bis(1,1-dimethylethyl)-		96-76-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenol, 2,6-bis(1,1-dimethylethyl)-		128-39-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- (UV 320)	2-(2H-ベンゾトリアゾール)-4,6-ビス(1,1-ジメチルエチル)フェノール	3846-71-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●	●		●			●									
Phenol, 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)- (UV-234)		70321-86-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)- (UV 329)		3147-75-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)-6-(1-methylpropyl)- (UV 350)		36437-37-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●		●					●							
Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)- (UV 327)	2-(5-クロロ-2H-ベンゾトリアゾール)-4,6-ビス(1,1'-ジメチルエチル)フェノール	3864-99-1	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●	●		●					●							
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene		68610-51-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenol, 4,4',4''-(1-methyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-		1843-03-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenol, 4,4'-methylenebis[2,6-bis(1,1-dimethylethyl)-	2,2',6,6'-メチレンビス(2,6-ビス(1,1-ジメチルエチル)フェノール)	118-82-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●								●								
Phenol, styrenated		61788-44-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	4-(1,1,3,3-テトラメチルブチル)フェノール	140-66-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●														
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated, selected	4-(1,1,3,3-テトラメチルブチル)フェノール、エトキシレート、全て					●																
alpha-(p-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxyethylene)		9036-19-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												
Polyethyleneglycol-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ether		9002-93-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●												
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated		-	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●		●												
20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol		2497-59-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●		●												
2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethanol		2315-67-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●		●												
2-[2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethoxy]ethanol		2315-61-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●		●												
Phenol, 2-(1-methylpropyl)-4,6-dinitro-	2-(1-メチルプロピル)-4,6-ジニトロフェノール	88-85-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●									●			●		
Phenol, 2,4,6-tris(1,1-dimethylethyl)-	2,4,6-トリ(1,1-ジメチルエチル)フェノール	732-26-3	Prohibited	All applications and products	Intentional addition	●							●									●
Phenylendiamines and its salts, selected	フェニレンジアミン類およびその塩、抜粋					●																
2,6-Dichloro-p-phenylenediamine	2,6-ジクロロ-p-フェニレンジアミン	609-20-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2-Ethoxy-N4,N4-diethyl-p-phenylenediamine	2-エトキシ-N4,N4-ジエチル-p-フェニレンジアミン	2359-46-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2-Methoxy-5-methyl-p-phenylenediamine	2-メトキシ-5-メチル-p-フェニレンジアミン	5307-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2-Nitro-p-phenylenediamine	2-ニトロ-p-フェニレンジアミン	5307-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
4-Chloro-o-phenylenediamine	4-クロロ-o-フェニレンジアミン	95-83-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	
Dimethyl-p-phenylenediamine	N,N-ジメチル-p-フェニレンジアミン	99-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
m-phenylenediamine	m-フェニレンジアミン	108-45-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
m-phenylenediamine dihydrochloride	m-フェニレンジアミン二塩酸塩	541-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
N,N'-Diphenyl-p-phenylenediamine	N,N'-ジフェニル-p-フェニレンジアミン	74-31-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
o-Phenylenediamine	o-フェニレンジアミン	95-54-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●	
o-phenylenediamine dihydrochloride	o-フェニレンジアミン二塩酸塩	615-28-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenylenediamines	フェニレンジアミン(異性体混合物)	25265-76-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
p-Phenylenediamine	p-フェニレンジアミン	106-50-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
p-Phenylenediamine dihydrochloride	p-フェニレンジアミン二塩酸塩	624-18-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
p-Phenylenediamine hydrochloride	p-フェニレンジアミンヒドロクロライド	55972-71-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phenyl Glycidyl Ether		122-60-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●		●	
Phosphoric acid, bis[(1,1-dimethylethyl)phenyl] phenyl ester		65652-41-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phosphoric acid,(1,1-dimethylethyl)phenyl diphenyl ester		56803-37-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phosphoric acid, tris(2-methylphenyl) ester	オトリルジメチルフェニール	78-30-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-propyl) esters, zinc salts		84605-29-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phosphorodithioic acid,mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts		85940-28-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phosphorodithioic acid,mixed O,O-bis(iso-butyl and pentyl) esters, zinc salts		68457-79-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts		113706-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts		68649-42-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Phthalates, selected	フタル酸エステル類、抜粋					●																
(1,2-Benzenedicarboxylic acid, diheptyl ester, branched and linear)	フタル酸ジヘプチルエステル(分枝型及び直鎖)	68515-44-6	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																
(1,2-Benzenedicarboxylic acid, dinonyl ester, branched and linear)	フタル酸ジノニルエステル(分枝型及び直鎖)	68515-45-7	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	1,2-ヘキセンジカルボキシ酸ジペンチルエステル,分枝及び直鎖	84777-06-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●										●			
(1,2-Benzenedicarboxylic acid, diundecyl ester)	フタル酸ジウンデシル	3648-20-2	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																
(1,2-Benzenedicarboxylic acid, heptyl nonyl ester, branched and linear)	フタル酸ジヘプチルノニルエステル(分枝型及び直鎖)	111381-89-6	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																
(1,2-Benzenedicarboxylic acid, heptyl undecyl ester, branched and linear)	フタル酸ジヘプチルウンデシルエステル(分枝型及び直鎖)	111381-90-9	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
(1,2-Benzenedicarboxylic acid, nonyl undecyl ester, branched and linear)	フタル酸ジアルキルエステル(分枝型及び直鎖)	111381-91-0	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																	
1,2-Benzenedicarboxylic acid; di-C6-8-branched alkylesters, C7-rich	フタル酸ジアキル	71888-89-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●									●				
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters		68515-51-5	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●	●		●													
1,2-Benzenedicarboxylic acid, di-C10-12-branched alkyl esters		1689515-36-3	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																	
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	1,2-ヘンゼンジカルボン酸、ジ-C6~10-アルキルエステル; 1,2-ヘンゼンジカルボン酸、ジ-C6~8-アルキルエステル; 0.3%以上のフタル酸ジアキル	68648-93-1	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●	●		●													
Benzyl butyl phthalate (BBP) (1,2-Benzenedicarboxylic acid, 1-butyl 2-(phenylmethyl) ester)	フタル酸ブチルベンジル(BBP)	85-68-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●		●								●		●		
Bis(2-methoxyethyl) phthalate (1,2-Benzenedicarboxylic acid, 1,2-bis(2-methoxyethyl) ester)		117-82-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●									●				
Di(2-ethylhexyl)phthalate (DEHP) (1,2-Benzenedicarboxylic acid, 1,2-bis(2-ethylhexyl) ester)	フタル酸ジ(2-エチルヘキシル)(DEHP)	117-81-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●		●								●		●		
Dibutylphthalate (DBP) (1,2-Benzenedicarboxylic acid, 1,2-dibutyl ester)	フタル酸ジブチル(DBP)	84-74-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●		●								●		●		
Benzyl octyl phthalate (B79P)		68515-40-2	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●																	
Dicyclohexyl phthalate	フタル酸ジシクロヘキシル	84-61-7	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●	●											●				
Dihexyl phthalate	フタル酸ジアキル	84-75-3	Prohibited/Reduced/Observation	To be reduced: Materials for parts and products other than those prohibited To be controlled: Packaging materials other than those prohibited	Relative to the weight of component parts and materials 1000	●	●	●		●									●		●		
Diisobutylphthalate (DiBP) (1,2-Benzenedicarboxylic acid, 1,2-bis(2-methylpropyl) ester )	ジイソブチルフェレート;フタル酸ジイソブチル (DiBP)	84-69-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●	●		●								●				
Diisopentylphthalate (DIPP) (1,2-Benzenedicarboxylic acid, 1,2-bis(3-methylbutyl) ester)	フタル酸ジイソペンチル(DIPP)	605-50-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●									●				
Dipentylphthalate (1,2-Benzenedicarboxylic acid, 1,2-dipentyl ester)	フタル酸ジペンチル	131-18-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●									●				
Heptyl undecyl phthalate (1,2-Benzenedicarboxylic acid di-C7-11-branched and linear alkyl-esters)	フタル酸ヘプタリルノニルエステル	68515-42-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●									●				
Di-isononyl phthalate	ジイソノニルフェレート(DINP)	28553-12-0	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●		●														
Di-isodecyl phthalate	ジイソデシルフェレート	26761-40-0	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●		●														
Di-n-octylphthalate	ジ-n-オクチルフェレート	117-84-0	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●		●														
Di-(C9-rich branched C8-C10-alkyl) phthalate		68515-48-0	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●		●														
Diisodecyl phthalate (DIDP)		68515-49-1	Reduced/Observation	To be reduced: parts, materials and sub-materials To be controlled: packaging materials	Relative to the weight of component parts and materials 1000	●	●		●														
Pitch, coal tar, high temp.	コールタール、高温留分	65996-93-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●		●		●									●				
Polyamine Curing Agents, selected	ポリアミン硬化剤、抜粋					●																	
bis-Hexamethylenetriamine	ビスヘキサメチレンジアミン	143-23-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Triethyleneglycoldiamine	1,8-ジエチレングリコールジアミン	929-59-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Poly(propylene glycol) triamine	ポリ(プロピレングリコール)トリアミン	64852-22-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Poly(propylene glycol) diamine	ポリ(プロピレングリコール)ジアミン	9046-10-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Pentaethylenehexamine	ペントエチレンヘキサミン	4067-16-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Hexamethylenetetramine	ヘキサメチレンテトラミン	100-97-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Polybrominated biphenyls (PBB), all members	ポリ臭化ビフェニル類 (PBB類) 、全て					●																	
1,1'-Biphenyl, 2,2',3,4',5'-pentabromo-	2,2',3,4',5'-ペンタブロムジフェニル	73141-48-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',3,4,6-pentabromo-	2,2',3,4,6-ペンタブロムジフェニル	77910-04-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',3,5',6-pentabromo-	2,2',3,5',6-ペンタブロムジフェニル	88700-05-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,4',5-pentabromo-	2,2',4,4',5-ペンタブロムジフェニル	81397-99-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,4',6-pentabromo-	2,2',4,4',6-ペンタブロムジフェニル	97038-97-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,4'-tetrabromo-	2,2',4,4'-テトラブロムジフェニル	66115-57-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo-	2,2',4,4',5,5'-ヘキサブロムジフェニル	59080-40-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●	●								●	●		
1,1'-Biphenyl, 2,2',4,5,5'-pentabromo-	2,2',4,5,5'-ペンタブロムジフェニル	67888-96-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,5',6-pentabromo-	2,2',4,5',6-ペンタブロムジフェニル	59080-39-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,5,6'-pentabromo-	2,2',4,5,6'-ペンタブロムジフェニル	80274-92-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,5'-tetrabromo-	2,2',4,5'-テトラブロムジフェニル	60044-24-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,6,6'-pentabromo-	2,2',4,6,6'-ペンタブロムジフェニル	97063-75-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',4,6'-tetrabromo-	2,2',4,6'-テトラブロムジフェニル	97038-95-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',5,5'-tetrabromo-	2,2',5,5'-テトラブロムジフェニル	59080-37-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',5,6'-tetrabromo-	2,2',5,6'-テトラブロムジフェニル	60044-25-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2',5-tribromo-	2,2',5-トリブロムジフェニル	59080-34-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●									●	●		
1,1'-Biphenyl, 2,2',6,6'-tetrabromo-	2,2',6,6'-テトラブロムジフェニル	97038-96-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,2'-dibromo-	2,2'-ジブロムジフェニル	13029-09-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,3,4,4',5-pentabromo-	2,3,4,4',5-ペンタブロムジフェニル	96551-70-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2',3,4,4',5-pentabromo-	2',3,4,4',5-ペンタブロムジフェニル	74114-77-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
1,1'-Biphenyl, 2,3',4,4'-tetrabromo-	2,3',4,4'-テトラブレン	84303-45-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●									●	●		
1,1'-Biphenyl, 2,3,4,5,6-pentabromo-	2,3,4,5,6-ペンタブレン	38421-62-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 2,3',4',5-tetrabromo-	2,3',4',5'-テトラブレン	59080-38-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 2,3',5-tribromo-	2,3',5-トリブレン	59080-35-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 2,3'-dibromo-	2,3'-ジブレン	49602-90-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 2,3,3',4'-tetrabromo-	2,3,3',4'-テトラブレン	40088-45-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●										●	●	
1,1'-Biphenyl, 2,4,4',6-tetrabromo-	2,4,4',6'-テトラブレン	64258-02-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 2,4',5-tribromo-	2,4',5-トリブレン	59080-36-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 2,4,6-tribromo-	2,4,6-トリブレン	59080-33-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 2,4',6-tribromo-	2,4',6-トリブレン	64258-03-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 2,4'-dibromo-	2,4'-ジブレン	49602-91-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 2,4-dibromo-	2,4-ジブレン	53592-10-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 2,5-dibromo-	2,5-ジブレン	57422-77-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 2,6-dibromo-	2,6-ジブレン	59080-32-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 3,3',4,4'-tetrabromo-	3,3',4,4'-テトラブレン	77102-82-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 3,3',4,5'-tetrabromo-	3,3',4,5'-テトラブレン	97038-98-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 3,3',5,5'-tetrabromo-	3,3',5,5'-テトラブレン	16400-50-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 3,3'-dibromo-	3,3'-ジブレン	16400-51-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 3,4,4',5-tetrabromo-	3,4,4',5'-テトラブレン	59589-92-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●										●	●	
1,1'-Biphenyl, 3,4'-dibromo-	3,4'-ジブレン	57186-90-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 3,4-dibromo-	3,4-ジブレン	60108-72-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
1,1'-Biphenyl, 4,4'-dibromo-	4,4'-ジブレン	92-86-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●		●		●											●	
1,1'-Biphenyl, dibromo-		27479-65-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●					●											●	
2-bromobiphenyl	2-ブレン	2052-07-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●											●	
3-bromobiphenyl	3-ブレン	2113-57-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●		●		●											●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
4-Bromobiphenyl	4-ブロムビフェニル	92-66-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●	●			●										●		
Decabromobiphenyl	デカブロムビフェニル	13654-09-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●	●			●											●	
Firemaster BP-6	臭素化BP-6	59536-65-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●	●			●											●	
Firemaster FF-1	臭素化FF-1(混合)	67774-32-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●											●	
Heptabromobiphenyl		35194-78-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●											●	
Hexabromobiphenyl	ヘキサブロムビフェニル	36355-01-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●	●			●		●					●				●	●
Nonabromo-,1'-biphenyl		27753-52-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●	●			●											●	
Octabromobiphenyl	オクタブロムビフェニル	27858-07-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●	●			●											●	●
Pentabromobiphenyl		56307-79-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●			●								●	●
Bromkal 80	オクタブロムビフェニル	61288-13-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000	●	●				●											●	
2,2', 4,4', 5,6'-hexabromobiphenyl	2,2',4,4',5,6'-ヘキサブロムビフェニル	36402-15-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 3,3', 5,5'-hexabromobiphenyl	2,2',3,3',5,5'-ヘキサブロムビフェニル	55066-76-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 4,4', 6,6'-hexabromobiphenyl	2,2',4,4',6,6'-ヘキサブロムビフェニル	59261-08-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
3,3', 4,4', 5,5'-hexabromobiphenyl	3,3',4,4',5,5'-ヘキサブロムビフェニル	60044-26-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 3,4,4', 5'-hexabromobiphenyl	2,2',3,4,4',5'-ヘキサブロムビフェニル	67888-98-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,3', 4,4', 5,5'-hexabromobiphenyl	2,3',4,4',5,5'-ヘキサブロムビフェニル	67888-99-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 3,4', 5', 6-hexabromobiphenyl	2,2',3,4',5',6'-ヘキサブロムビフェニル	69278-59-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,3,3', 4,4', 5-hexabromobiphenyl	2,3,3',4,4',5'-ヘキサブロムビフェニル	77607-09-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 3,4,4', 5-hexabromobiphenyl	2,2',3,4,4',5'-ヘキサブロムビフェニル	81381-52-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 3,3', 4,4'-hexabromobiphenyl	2,2',3,3',4,4'-ヘキサブロムビフェニル	82865-89-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 3,3', 4,5'-hexabromobiphenyl	2,2',3,3',4,5'-ヘキサブロムビフェニル	82865-90-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,3,3', 4', 5', 6-hexabromobiphenyl	2,3,3',4',5',6'-ヘキサブロムビフェニル	82865-91-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,3,3', 4,4', 5'-hexabromobiphenyl	2,3,3',4,4',5'-ヘキサブロムビフェニル	84303-47-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,3', 4,4', 5', 6-hexabromobiphenyl	2,3',4,4',5',6'-ヘキサブロムビフェニル	84303-48-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●
2,2', 3,4', 6,6'-hexabromobiphenyl	2,2',3,4',6,6'-ヘキサブロムビフェニル	93261-83-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●									●	●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,2', 3,3', 4,6'-hexabromobiphenyl	2,2',3,3',4,6'-ヘキサブロムジフェニール	119264-50-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●							●	●		
2,2', 3,3', 5,6'-hexabromobiphenyl	2,2',3,3',5,6'-ヘキサブロムジフェニール	119264-51-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●								●	●	
2,2', 3,4,5', 6-hexabromobiphenyl	2,2',3,4,5',6'-ヘキサブロムジフェニール	119264-52-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●								●	●	
2,2', 3,5,5', 6-hexabromobiphenyl	2,2',3,5,5',6'-ヘキサブロムジフェニール	119264-53-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●								●	●	
2,2', 3,4,5,5'-hexabromobiphenyl	2,2',3,4,5,5'-ヘキサブロムジフェニール	120991-47-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●								●	●	
2,3,3', 4,5,5'-hexabromobiphenyl	2,3,3',4,5,5'-ヘキサブロムジフェニール	120991-48-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000						●		●								●	●	
2,4,4'-Tribromobiphenyl	2,4,4'-トリブロムジフェニール	6430-90-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
3,4,4'-Tribromobiphenyl	3,4,4'-トリブロムジフェニール	6683-35-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
3,5-Dibromobiphenyl		16372-96-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●							●	
Tribromobiphenyl	トリブロムジフェニール	51202-79-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3',4,4',5-Pentabromobiphenyl	2,3',4,4',5'-ペンタブロムジフェニール	67888-97-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
3,4',5-Tribromobiphenyl	3,4',5'-トリブロムジフェニール	72416-87-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3',4,5,5'-Pentabromobiphenyl	2,3',4,5,5'-ペンタブロムジフェニール	80407-70-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
3,3',4,5,5'-Pentabromobiphenyl	3,3',4,5,5'-ペンタブロムジフェニール	81902-33-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
3,3',4,4',5-Pentabromobiphenyl	3,3',4,4',5'-ペンタブロムジフェニール	84303-46-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3',4,4',6-Pentabromobiphenyl	2,3',4,4',6'-ペンタブロムジフェニール	86029-64-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3,3',4-Tetrabromobiphenyl	2,3,3',4'-テトラブロムジフェニール	97038-99-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3-Dibromobiphenyl		115245-06-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●							●	
2,4,5-Tribromobiphenyl	2,4,5'-トリブロムジフェニール	115245-07-3	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
3,4,5-Tribromobiphenyl	3,4,5'-トリブロムジフェニール	115245-08-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3,4,5-Tetrabromobiphenyl	2,3,4,5'-テトラブロムジフェニール	115245-09-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3,4,6-Tetrabromobiphenyl	2,3,4,6'-テトラブロムジフェニール	115245-10-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3',4-Tribromobiphenyl	2,3',4'-トリブロムジフェニール	144978-86-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,3,3',4',6-Pentabromobiphenyl	2,3,3',4',6'-ペンタブロムジフェニール	144978-89-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	
2,2',4-Tribromobiphenyl	2,2',4'-トリブロムジフェニール	144978-90-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000										●						●	●	



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,2,3,4,5-pentabromo-6-phenoxybenzene	1,2,3,4,5- $\text{Br}_5$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$ - $\text{O}$ - $\text{C}_6\text{H}_5$	189084-65-9	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000								●					●	●			
Tribromo (tribromophenoxy) benzene	$\text{Br}_3$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_4$ - $\text{O}$ - $\text{C}_6\text{H}_5$	31153-30-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000								●					●	●			
1,3,5-tribromo-2- (2,4,6-tribromophenoxy) benzene	1,3,5- $\text{Br}_3$ - $\text{C}_6\text{H}_2$ - $\text{C}_6\text{H}_2$ - $\text{O}$ - $\text{C}_6\text{H}_2$ - $\text{Br}_2$	35854-94-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000								●					●	●			
1,2,4,5-tetrabromo-3- (2,4,6- tribromophenoxy) benzene	1,2,4,5- $\text{Br}_4$ - $\text{C}_6\text{H}_2$ - $\text{C}_6\text{H}_2$ - $\text{O}$ - $\text{C}_6\text{H}_2$ - $\text{Br}_2$	116995-32-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000								●					●	●			
1,2,3,5-tetrabromo-4- (2,4,6- tribromophenoxy) benzene	1,2,3,5- $\text{Br}_4$ - $\text{C}_6\text{H}_2$ - $\text{C}_6\text{H}_2$ - $\text{O}$ - $\text{C}_6\text{H}_2$ - $\text{Br}_2$	117948-63-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000								●					●	●			
Benzene, 1,2,3-tribromo-4-(2,4,5- tribromophenoxy)-	$\text{Br}_3$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_2$ - $\text{O}$ - $\text{C}_6\text{H}_2$ - $\text{Br}_2$	182677-30-1	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000													●				
2,3',4',6'-Pentabromodiphenyl Ether	$\text{Br}_5$ - $\text{C}_6\text{H}_3$ - $\text{O}$ - $\text{C}_6\text{H}_3$ - $\text{Br}_2$	189084-66-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000													●				
2,2',3,4',4'-PENTABDE	$\text{Br}_5$ - $\text{C}_6\text{H}_3$ - $\text{O}$ - $\text{C}_6\text{H}_3$ - $\text{Br}_2$	182346-21-0	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000													●				
Benzene, 1,2-dibromo-4-(2,4- dibromophenoxy)-	$\text{Br}_2$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_2$ - $\text{O}$ - $\text{C}_6\text{H}_2$ - $\text{Br}_2$	189084-61-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000													●				
2,4,4',6'-tetrabromodiphenyl ether	$\text{Br}_4$ - $\text{C}_6\text{H}_3$ - $\text{O}$ - $\text{C}_6\text{H}_3$ - $\text{Br}_2$	189084-63-7	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000													●				
2,3',4',6'-tetrabromodiphenyl ether	$\text{Br}_4$ - $\text{C}_6\text{H}_3$ - $\text{O}$ - $\text{C}_6\text{H}_3$ - $\text{Br}_2$	189084-62-6	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Bromine concentration in homogeneous materials 1000													●				
Polybrominated terphenyls ( PBT ), all members	ポリ臭化ターフェニル類 (PBT) 、全て					●																
Dodecabromoterphenyl	$\text{Br}_{12}$ - $\text{C}_{18}\text{H}_{12}$	79596-31-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Undecabromoterphenyl	1,1':4',1''- $\text{Br}_{11}$ - $\text{C}_{18}\text{H}_{12}$ /臭素,(1:11)	83929-80-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
4-Bromo-p-terphenyl (1,1':4',1''-Terphenyl, 4-bromo-)	4- $\text{Br}$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$	1762-84-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2''-Bromo-[1,1';4',1'']terphenyl	$\text{Br}$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$	3282-24-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
2''-Bromo-[1,1';2',1'']terphenyl	$\text{Br}$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$	75295-57-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
4,4''-Dibromo-p-terphenyl	4,4''- $\text{Br}_2$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$	17788-94-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
3-bromo-p-terphenyl	3- $\text{Br}$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_4$	1762-87-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Polychlorinated biphenyls ( PCB ), all members	ポリ塩化ビフェニル類 (PCB) 、全て					●																
1,1'-Biphenyl, 2,4',5'-trichloro-	2,4',5'- $\text{Cl}_3$ - $\text{C}_6\text{H}_4$ - $\text{C}_6\text{H}_5$	16606-02-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●				●
2,2',4,4'-Tetrachlorobiphenyl	2,2',4,4'- $\text{Cl}_4$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_3$	2437-79-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●				●
2,3',4,4',5,5'-HEXACHLOROBIPHENYL	2,3',4,4',5,5'- $\text{Cl}_6$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_3$	52663-72-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●				●
2,4,5,2',4',5'-Hexachlorobiphenyl	2,4,5,2',4',5'- $\text{Cl}_6$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_3$	35065-27-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●				●
3,3',4,4'-TETRACHLOROBIPHENYL	3,3',4,4'- $\text{Cl}_4$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_3$	32598-13-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●				●
3,4,5,3',4',5'-Hexachlorobiphenyl	3,3',4,4',5,5'- $\text{Cl}_6$ - $\text{C}_6\text{H}_3$ - $\text{C}_6\text{H}_3$	32774-16-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●				●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Aroclor 1016	塩化ナフタレン(塩素16%)	12674-11-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●																●	
Aroclor 1221	塩化ナフタレン(塩素21%)	11104-28-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●																	●
Aroclor 1232	塩化ナフタレン(塩素32%)	11141-16-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●																	●
Aroclor 1242	シカドナフタレン	53469-21-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●																	●
Aroclor 1248	塩化ナフタレン(塩素48%)	12672-29-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●																	●
AROCLOR 1254	塩化ナフタレン(塩素54%)	11097-69-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●					●
Aroclor 1260	塩化ナフタレン(塩素60%)	11096-82-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●																	●
Heptachloro-1,1'-biphenyl	ヘプタクロロナフタレン	28655-71-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●					●
Nonachloro-1,1'-biphenyl	ノナクロロナフタレン	53742-07-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●					●
pentachloro[1,1'-biphenyl]	ペンタクロロナフタレン	25429-29-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●					●
Polychlorinated biphenyls	多クロロナフタレン	1336-36-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●	●						●					●					●
Tetrachloro(tetrachlorophenyl)benzene	テトラクロロナフタレン	31472-83-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2	●							●					●					●
3,3'-dichlorobiphenyl	3,3'-ジクロロナフタレン	2050-67-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
4,4'-dichlorobiphenyl	4,4'-ジクロロナフタレン	2050-68-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 5,5', 6,6'- decachlorobiphenyl		2051-24-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2-chlorobiphenyl		2051-60-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3-chlorobiphenyl	3-クロロナフタレン	2051-61-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
4-Chlorobiphenyl	4-クロロナフタレン	2051-62-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 5,5', 6,6'-octachlorobiphenyl		2136-99-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,4'-dichlorobiphenyl	3,4'-ジクロロナフタレン	2974-90-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,4-dichlorobiphenyl	3,4-ジクロロナフタレン	2974-92-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4,4'-trichlorobiphenyl	2,4,4'-トリクロロナフタレン	7012-37-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2'-dichlorobiphenyl	2,2'-ジクロロナフタレン	13029-08-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,4,5-trichlorobiphenyl	2,4,5-トリクロロビフェニル	15862-07-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●				●					●	
2,2', 6,6'-tetrachlorobiphenyl		15968-05-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3-dichlorobiphenyl	2,3-ジクロロビフェニル	16605-91-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,4,5,6-Pentachlorobiphenyl	2,3,4,5,6-ペンタクロロビフェニル	18259-05-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
Trichlorobiphenyl	トリクロロビフェニル	25323-68-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
Dichlorobiphenyl		25512-42-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3'-dichlorobiphenyl	2,3'-ジクロロビフェニル	25569-80-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
Hexachlorobiphenyl	ヘキサクロロビフェニル	26601-64-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
Tetrachlorobiphenyl	テトラクロロビフェニル	26914-33-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
Chlorobiphenyl	クロロビフェニル	27323-18-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
ar, ar, ar-trichlorobiphenyl	ar,ar,ar-トリクロロビフェニル	30605-61-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4,4', 5-pentachlorobiphenyl	2,3',4,4',5-ペンタクロロビフェニル	31508-00-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4,4'-tetrachlorobiphenyl	2,3',4,4'-テトラクロロビフェニル	32598-10-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4', 5-tetrachlorobiphenyl	2,3',4',5-テトラクロロビフェニル	32598-11-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4,4', 6-tetrachlorobiphenyl	2,4,4',6-テトラクロロビフェニル	32598-12-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,4'-pentachlorobiphenyl	2,3,3',4,4'-ペンタクロロビフェニル	32598-14-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4,4', 5-tetrachlorobiphenyl	2,4,4',5-テトラクロロビフェニル	32690-93-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,4,4'-tetrachlorobiphenyl	2,3,4,4'-テトラクロロビフェニル	33025-41-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
ar, ar'-dichlorobiphenyl	ar,ar'-ジクロロビフェニル	33039-81-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 6,6'-octachlorobiphenyl	2,2',3,3',4,4',6,6'-オクタクロロビフェニル	33091-17-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,6-dichlorobiphenyl	2,6-ジクロロビフェニル	33146-45-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4-dichlorobiphenyl	2,4-ジクロロビフェニル	33284-50-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,3', 5,5'-tetrachlorobiphenyl	3,3',5,5'-テトラクロロビフェニル	33284-52-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,3,4,5-tetrachlorobiphenyl	2,3,4,5-テトラクロロビフェニル	33284-53-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●				●					●	
2,3,5,6-tetrachlorobiphenyl	2,3,5,6-テトラクロロビフェニル	33284-54-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,4', 6,6'-hexachlorobiphenyl	2,2',4,4',6,6'-ヘキサクロロビフェニル	33979-03-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,5-dichlorobiphenyl	2,5-ジクロロビフェニル	34883-39-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,5-dichlorobiphenyl	3,5-ジクロロビフェニル	34883-41-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4'-dichlorobiphenyl	2,4'-ジクロロビフェニル	34883-43-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5'-hexachlorobiphenyl	2,2',3,4,4',5'-ヘキサクロロビフェニル	35065-28-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5,5'-heptachlorobiphenyl	2,2',3,4,4',5,5'-ヘプタクロロビフェニル	35065-29-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 5'-heptachlorobiphenyl	2,2',3,3',4,4',5'-ヘプタクロロビフェニル	35065-30-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4,6-trichlorobiphenyl	2,4,6-トリクロロビフェニル	35693-92-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 5,5'-tetrachlorobiphenyl	2,2',5,5'-テトラクロロビフェニル	35693-99-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 5,5'-hexachlorobiphenyl	2,2',3,3',5,5'-ヘキサクロロビフェニル	35694-04-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5'-hexachlorobiphenyl	2,2',3,4,4',5'-ヘキサクロロビフェニル	35694-06-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 5,5'-octachlorobiphenyl	2,2',3,3',4,4',5,5'-オクタクロロビフェニル	35694-08-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4'-tetrachlorobiphenyl	2,2',3,4'-テトラクロロビフェニル	36559-22-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 5-trichlorobiphenyl	2,2',5-トリクロロビフェニル	37680-65-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4-trichlorobiphenyl	2,2',4-トリクロロビフェニル	37680-66-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 5'-trichlorobiphenyl	2,3',5'-トリクロロビフェニル	37680-68-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,3', 4-trichlorobiphenyl	3,3',4-トリクロロビフェニル	37680-69-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,5,5'-pentachlorobiphenyl	2,2',4,5,5'-ペンタクロロビフェニル	37680-73-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,5', 6-pentachlorobiphenyl	2,2',3,5',6-ペンタクロロビフェニル	38379-99-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,4', 5-pentachlorobiphenyl	2,2',4,4',5-ペンタクロロビフェニル	38380-01-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,5'-pentachlorobiphenyl	2,2',3,4,5'-ペンタクロロビフェニル	38380-02-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,3,3', 4', 6-pentachlorobiphenyl	2,3,3',4',6-ハロゲン化 biphenyl	38380-03-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●				●					●	
2,2', 3,4', 5', 6-hexachlorobiphenyl	2,2',3',4',5',6-ハロゲン化 biphenyl	38380-04-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,6'-hexachlorobiphenyl	2,2',3',3',4,6'-ハロゲン化 biphenyl	38380-05-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4'-hexachlorobiphenyl	2,2',3',3',4,4'-ハロゲン化 biphenyl	38380-07-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,4', 5-hexachlorobiphenyl	2,3,3',4,4',5-ハロゲン化 biphenyl	38380-08-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 6,6'-hexachlorobiphenyl	2,2',3',3',6,6'-ハロゲン化 biphenyl	38411-22-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5,6'-heptachlorobiphenyl	2,2',3',3',4,5,6'-ハロゲン化 biphenyl	38411-25-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 6-trichlorobiphenyl	2,2',6-トリクロロ biphenyl	38444-73-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 6-trichlorobiphenyl	2,3',6-トリクロロ biphenyl	38444-76-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4', 6-trichlorobiphenyl	2,4',6-トリクロロ biphenyl	38444-77-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3-trichlorobiphenyl	2,2',3-トリクロロ biphenyl	38444-78-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 5-trichlorobiphenyl	2,3',5-トリクロロ biphenyl	38444-81-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3'-trichlorobiphenyl	2,3,3'-トリクロロ biphenyl	38444-84-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,4'-trichlorobiphenyl	2,3,4'-トリクロロ biphenyl	38444-85-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2', 3,4-trichlorobiphenyl	2',3,4-トリクロロ biphenyl	38444-86-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,3', 5-trichlorobiphenyl	3,3',5-トリクロロ biphenyl	38444-87-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,4', 5-trichlorobiphenyl	3,4',5-トリクロロ biphenyl	38444-88-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,4,4'-trichlorobiphenyl	3,4,4'-トリクロロ biphenyl	38444-90-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3'-tetrachlorobiphenyl	2,2',3,3'-テトラクロロ biphenyl	38444-93-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,4', 6-pentachlorobiphenyl	2,2',4,4',6-ハロゲン化 biphenyl	39485-83-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,4', 5,5'-heptachlorobiphenyl	2,3,3',4,4',5,5'-ハロゲン化 biphenyl	39635-31-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 5,5'-pentachlorobiphenyl	2,3,3',5,5'-ハロゲン化 biphenyl	39635-32-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,3', 4,5,5'-pentachlorobiphenyl	3,3',4,5,5'-ハロゲン化 biphenyl	39635-33-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,3,3', 4', 5,5'-hexachlorobiphenyl	2,3,3',4',5,5'-ヘキサクロロビフェニル	39635-34-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●				●					●	
2,3,3', 4,5,5'-hexachlorobiphenyl	2,3,3',4,5,5'-ヘキサクロロビフェニル	39635-35-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5', 6-heptachlorobiphenyl	2,2',3,3',4,5',6'-ヘプタクロロビフェニル	40186-70-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5', 6,6'-octachlorobiphenyl	2,2',3,3',4,5',6,6'-オクタクロロビフェニル	40186-71-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 5,5', 6-nonachlorobiphenyl	2,2',3,3',4,4',5,5',6'-ノナクロロビフェニル	40186-72-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,5,6-hexachlorobiphenyl	2,2',3,4,5,6'-ヘキサクロロビフェニル	41411-61-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,5,6-hexachlorobiphenyl	2,3,3',4,5,6'-ヘキサクロロビフェニル	41411-62-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,4,4', 5,6-hexachlorobiphenyl	2,3,4,4',5,6'-ヘキサクロロビフェニル	41411-63-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,4', 5,6-heptachlorobiphenyl	2,3,3',4,4',5,6'-ヘプタクロロビフェニル	41411-64-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,5'-tetrachlorobiphenyl	2,2',3,5'-テトラクロロビフェニル	41464-39-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,5'-tetrachlorobiphenyl	2,2',4,5'-テトラクロロビフェニル	41464-40-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 5,6'-tetrachlorobiphenyl	2,2',5,6'-テトラクロロビフェニル	41464-41-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 5,5'-tetrachlorobiphenyl	2,3',5,5'-テトラクロロビフェニル	41464-42-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4'-tetrachlorobiphenyl	2,3,3',4'-テトラクロロビフェニル	41464-43-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4', 6-tetrachlorobiphenyl	2,3',4',6'-テトラクロロビフェニル	41464-46-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,6'-tetrachlorobiphenyl	2,2',3,6'-テトラクロロビフェニル	41464-47-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,3', 4,5'-tetrachlorobiphenyl	3,3',4,5'-テトラクロロビフェニル	41464-48-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 5'-tetrachlorobiphenyl	2,3,3',5'-テトラクロロビフェニル	41464-49-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4', 5'-pentachlorobiphenyl	2,2',3,4',5'-ペンタクロロビフェニル	41464-51-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 5,6'-octachlorobiphenyl	2,2',3,3',4,4',5,6'-オクタクロロビフェニル	42740-50-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4', 5,5'-hexachlorobiphenyl	2,2',3,4',5,5'-ヘキサクロロビフェニル	51908-16-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,4', 6-tetrachlorobiphenyl	2,3,4',6'-テトラクロロビフェニル	52663-58-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4-tetrachlorobiphenyl	2,2',3,4'-テトラクロロビフェニル	52663-59-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,2', 3,3', 6-pentachlorobiphenyl	2,2',3,3',6-ハロゲン化ジフェニール	52663-60-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●				●					●	
2,2', 3,5,5'-pentachlorobiphenyl	2,2',3,5,5'-ハロゲン化ジフェニール	52663-61-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4-pentachlorobiphenyl	2,2',3,3',4-ハロゲン化ジフェニール	52663-62-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,5,5', 6-hexachlorobiphenyl	2,2',3,5,5',6-ハロゲン化ジフェニール	52663-63-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 5,6,6'-heptachlorobiphenyl	2,2',3,3',5,6,6'-ハロゲン化ジフェニール	52663-64-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,6,6'-heptachlorobiphenyl	2,2',3,3',4,6,6'-ハロゲン化ジフェニール	52663-65-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5'-hexachlorobiphenyl	2,2',3,3',4,5'-ハロゲン化ジフェニール	52663-66-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 5,5', 6-heptachlorobiphenyl	2,2',3,3',5,5',6-ハロゲン化ジフェニール	52663-67-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4', 5,5', 6-heptachlorobiphenyl	2,2',3,4',5,5',6-ハロゲン化ジフェニール	52663-68-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5', 6-heptachlorobiphenyl	2,2',3,4,4',5',6-ハロゲン化ジフェニール	52663-69-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5', 6'-heptachlorobiphenyl	2,2',3,3',4,5',6'-ハロゲン化ジフェニール	52663-70-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 6-heptachlorobiphenyl	2,2',3,3',4,4',6-ハロゲン化ジフェニール	52663-71-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5,6'-octachlorobiphenyl	2,2',3,3',4,5,6'-ハロゲン化ジフェニール	52663-73-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5,5'-heptachlorobiphenyl	2,2',3,3',4,5,5'-ハロゲン化ジフェニール	52663-74-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5,5', 6'-octachlorobiphenyl	2,2',3,3',4,5,5',6'-ハロゲン化ジフェニール	52663-75-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5,5', 6'-octachlorobiphenyl	2,2',3,4,4',5,5',6'-ハロゲン化ジフェニール	52663-76-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5,5', 6,6'-nonachlorobiphenyl	2,2',3,3',4,5,5',6,6'-ハロゲン化ジフェニール	52663-77-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 5,6'-octachlorobiphenyl	2,2',3,3',4,4',5,6'-ハロゲン化ジフェニール	52663-78-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,4', 5,6,6'-nonachlorobiphenyl	2,2',3,3',4,4',5,6,6'-ハロゲン化ジフェニール	52663-79-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 5,6-hexachlorobiphenyl	2,2',3,3',5,6-ハロゲン化ジフェニール	52704-70-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,5,5'-hexachlorobiphenyl	2,2',3,4,5,5'-ハロゲン化ジフェニール	52712-04-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,5,5', 6-heptachlorobiphenyl	2,2',3,4,5,5',6-ハロゲン化ジフェニール	52712-05-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 5,6'-hexachlorobiphenyl	2,2',3,3',5,6'-ハロゲン化ジフェニール	52744-13-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
3,4,5-trichlorobiphenyl	3,4,5-トリクロロビフェニル	53555-66-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●				●					●	
2,3,4,6-tetrachlorobiphenyl	2,3,4,6-テトラクロロビフェニル	54230-22-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
(±)-2,2', 3,4,6-pentachlorobiphenyl	(±)-2,2',3,4,6-ペンタクロロビフェニル	55215-17-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 4,5-hexachlorobiphenyl	2,2',3,3',4,5-ヘキサクロロビフェニル	55215-18-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,5-pentachlorobiphenyl	2,2',3,4,5-ペンタクロロビフェニル	55312-69-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,6-trichlorobiphenyl	2,3,6-トリクロロビフェニル	55702-45-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,4-trichlorobiphenyl	2,3,4-トリクロロビフェニル	55702-46-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4-trichlorobiphenyl	2,3',4-トリクロロビフェニル	55712-37-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,5-trichlorobiphenyl	2,3,5-トリクロロビフェニル	55720-44-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
Octachlorobiphenyl	オクタクロロビフェニル	55722-26-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
(±)-2,2', 3,4,4', 6-hexachlorobiphenyl	(±)-2,2',3,4,4',6-ヘキサクロロビフェニル	56030-56-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,6,6'-pentachlorobiphenyl	2,2',4,6,6'-ペンタクロロビフェニル	56558-16-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4,4', 6-pentachlorobiphenyl	2,3',4,4',6-ペンタクロロビフェニル	56558-17-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4,5', 6-pentachlorobiphenyl	2,3',4,5',6-ペンタクロロビフェニル	56558-18-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
3,3', 4,4', 5-pentachlorobiphenyl	3,3',4,4',5-ペンタクロロビフェニル	57465-28-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 6'-hexachlorobiphenyl	2,2',3,4,4',6'-ヘキサクロロビフェニル	59291-64-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4,4', 5', 6-hexachlorobiphenyl	2,3',4,4',5',6-ヘキサクロロビフェニル	59291-65-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,3', 5-pentachlorobiphenyl	2,2',3,3',5-ペンタクロロビフェニル	60145-20-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,5', 6-pentachlorobiphenyl	2,2',4,5',6-ペンタクロロビフェニル	60145-21-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 4,4', 5,6'-hexachlorobiphenyl	2,2',4,4',5,6'-ヘキサクロロビフェニル	60145-22-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5,6'-heptachlorobiphenyl	2,2',3,4,4',5,6'-ヘプタクロロビフェニル	60145-23-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3', 4,6-tetrachlorobiphenyl	2,3',4,6-テトラクロロビフェニル	60233-24-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4', 6'-pentachlorobiphenyl	2,2',3,4',6'-ペンタクロロビフェニル	60233-25-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,2', 3,3', 4,6-hexachlorobiphenyl	2,2',3,3',4,6-ヘキサクロロビフェニル	61798-70-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●				●	
2,4,4' (or 3,4,4') - trichlorobiphenyl	2,4,4'(又は3,4,4')-トリクロロビフェニル	62461-62-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 4,6-tetrachlorobiphenyl	2,2',4,6-テトラクロロビフェニル	62796-65-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,3', 4,4', 5'-pentachlorobiphenyl	2,3',4,4',5'-ペンタクロロビフェニル	65510-44-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,4,4'-pentachlorobiphenyl	2,2',3,4,4'-ペンタクロロビフェニル	65510-45-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 4,6'-tetrachlorobiphenyl	2,2',4,6'-テトラクロロビフェニル	68194-04-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,4', 6-pentachlorobiphenyl	2,2',3,4',6-ペンタクロロビフェニル	68194-05-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 4,5,6'-pentachlorobiphenyl	2,2',4,5,6'-ペンタクロロビフェニル	68194-06-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,4', 5-pentachlorobiphenyl	2,2',3,4',5-ペンタクロロビフェニル	68194-07-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,4', 6,6'-hexachlorobiphenyl	2,2',3,4',6,6'-ヘキサクロロビフェニル	68194-08-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,5,6'-hexachlorobiphenyl	2,2',3,5,6'-ヘキサクロロビフェニル	68194-09-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,3,3', 5', 6-pentachlorobiphenyl	2,3,3',5',6-ペンタクロロビフェニル	68194-10-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,3,4', 5,6-pentachlorobiphenyl	2,3,4',5,6-ペンタクロロビフェニル	68194-11-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,3', 4,5,5'-Pentachlorobiphenyl	2,3',4,5,5'-ペンタクロロビフェニル	68194-12-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,4', 5,6-hexachlorobiphenyl	2,2',3,4',5,6-ヘキサクロロビフェニル	68194-13-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,4,5', 6-hexachlorobiphenyl	2,2',3,4,5',6-ヘキサクロロビフェニル	68194-14-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,4,5,6'-hexachlorobiphenyl	2,2',3,4,5,6'-ヘキサクロロビフェニル	68194-15-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,3', 4,5,6-heptachlorobiphenyl	2,2',3,3',4,5,6-ヘプタクロロビフェニル	68194-16-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,3', 4,5,5', 6-octachlorobiphenyl	2,2',3,3',4,5,5',6-オクタクロロビフェニル	68194-17-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,3,3', 4,4', 5'-hexachlorobiphenyl	2,3,3',4,4',5'-ヘキサクロロビフェニル	69782-90-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,3,3', 4', 5,5', 6-heptachlorobiphenyl	2,3,3',4',5,5',6-ヘプタクロロビフェニル	69782-91-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,3,3', 4,5'-pentachlorobiphenyl	2,3,3',4,5'-ペンタクロロビフェニル	70362-41-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●
2,2', 3,6-tetrachlorobiphenyl	2,2',3,6-テトラクロロビフェニル	70362-45-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●						●				●



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,3', 4', 5', 6-pentachlorobiphenyl	2,3',4',5',6-ハロゲン化 biphenyl	74472-39-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●				●					●	
2,2', 3,4,6,6'-hexachlorobiphenyl	2,2',3,4,6,6'-ハロゲン化 biphenyl	74472-40-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4', 5,6'-hexachlorobiphenyl	2,2',3,4',5,6'-ハロゲン化 biphenyl	74472-41-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,4', 6-hexachlorobiphenyl	2,3,3',4,4',6-ハロゲン化 biphenyl	74472-42-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,5', 6-hexachlorobiphenyl	2,3,3',4,5',6-ハロゲン化 biphenyl	74472-43-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4', 5,6-hexachlorobiphenyl	2,3,3',4',5,6-ハロゲン化 biphenyl	74472-44-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4', 5', 6-hexachlorobiphenyl	2,3,3',4',5',6-ハロゲン化 biphenyl	74472-45-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 5,5', 6-hexachlorobiphenyl	2,3,3',5,5',6-ハロゲン化 biphenyl	74472-46-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5,6-heptachlorobiphenyl	2,2',3,4,4',5,6-ハロゲン化 biphenyl	74472-47-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 6,6'-heptachlorobiphenyl	2,2',3,4,4',6,6'-ハロゲン化 biphenyl	74472-48-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,5,6,6'-heptachlorobiphenyl	2,2',3,4,5,6,6'-ハロゲン化 biphenyl	74472-49-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,4', 5', 6-heptachlorobiphenyl	2,3,3',4,4',5',6-ハロゲン化 biphenyl	74472-50-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,5,5', 6-heptachlorobiphenyl	2,3,3',4,5,5',6-ハロゲン化 biphenyl	74472-51-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4,4', 5,6,6'-octachlorobiphenyl	2,2',3,4,4',5,6,6'-ハロゲン化 biphenyl	74472-52-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4,4', 5,5', 6-octachlorobiphenyl	2,3,3',4,4',5,5',6-ハロゲン化 biphenyl	74472-53-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,2', 3,4', 5,6,6'-heptachlorobiphenyl	2,2',3,4',5,6,6'-ハロゲン化 biphenyl	74487-85-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,3,3', 4', 5'-pentachlorobiphenyl	2,3,3',4',5'-ハロゲン化 biphenyl	76842-07-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2,4',7'-trichlorobiphenyl	2,4',7'-トリクロロ biphenyl	94487-00-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2, 3,?' (Or 3, 4,?) - trichlorobiphenyl	2,3,?'(又は3,4,?)-トリクロロ biphenyl	97122-18-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
2, 4,?' (2,6,?' Or ha 3, 5,?' ) - trichlorobiphenyl		97122-20-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
(±) -2,2', 3,4,6-pentachlorobiphenyl	(±)-2,2',3,4,6-ハロゲン化 biphenyl	99554-08-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
(±) -2,2', 3,4,4', 6-hexachlorobiphenyl	(±)-2,2',3,4,4',6-ハロゲン化 biphenyl	99554-09-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●
(+) - 2,2', 3,4,6-pentachlorobiphenyl	(+)-2,2',3,4,6-ハロゲン化 biphenyl	99554-10-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 2								●					●					●









5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Benz[e]acephenanthrylene	ベンゾ[e]アセフェナンチレン	205-99-2	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact 3) Textile products other than clothing	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs regulated by REACH Annex XVII 2) Rubber, Plastic: 1 for any of the PAHs regulated by REACH Annex XVII 3) Textile products other than clothing that come into contact with the human skin 1 for any of the PAHs regulated by REACH Annex XVII	●	●	●									●	●		●		
Benzo[a]pyrene	ベンゾ[a]ピレン	50-32-8	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact 3) Textile products other than clothing	1) Extender oils and extender oils in tyres: 1 2) Rubber, Plastic: 1 3) Textile products other than clothing that come into contact with the human skin 1	●	●	●	●									●	●		●	
Benzo[e]pyrene	ベンゾ[e]ピレン	192-97-2	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact 3) Textile products other than clothing	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs regulated by REACH Annex XVII 2) Rubber, Plastic: 1 for any of the PAHs regulated by REACH Annex XVII 3) Textile products other than clothing that come into contact with the human skin 1 for any of the PAHs regulated by REACH Annex XVII	●	●	●											●			
Benzo[ghi]perylene		191-24-2	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs 2) Rubber, Plastic: 1	●	●	●														
Benzo[j]fluoranthene	ベンゾ[j]フルオランテネ	205-82-3	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact 3) Textile products other than clothing	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs regulated by REACH Annex XVII 2) Rubber, Plastic: 1 for any of the PAHs regulated by REACH Annex XVII 3) Textile products other than clothing that come into contact with the human skin 1 for any of the PAHs regulated by REACH Annex XVII	●	●	●											●			●
Benzo[k]fluoranthene	ベンゾ[k]フルオランテネ	207-08-9	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact 3) Textile products other than clothing	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs regulated by REACH Annex XVII 2) Rubber, Plastic: 1 for any of the PAHs regulated by REACH Annex XVII 3) Textile products other than clothing that come into contact with the human skin 1 for any of the PAHs regulated by REACH Annex XVII	●	●	●	●									●	●		●	
Chrysene	クリセン	218-01-9	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact 3) Textile products other than clothing	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs regulated by REACH Annex XVII 2) Rubber, Plastic: 1 for any of the PAHs regulated by REACH Annex XVII 3) Textile products other than clothing that come into contact with the human skin 1 for any of the PAHs regulated by REACH Annex XVII	●	●	●	●										●			●
Dibenz[a,h]anthracene	ジベンゾ[a,h]アントラセン	53-70-3	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact 3) Textile products other than clothing	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs regulated by REACH Annex XVII 2) Rubber, Plastic: 1 for any of the PAHs regulated by REACH Annex XVII 3) Textile products other than clothing that come into contact with the human skin 1 for any of the PAHs regulated by REACH Annex XVII	●	●	●	●										●			●
Fluoranthene		206-44-0	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs 2) Rubber, Plastic: 1	●																
Naphthalene	ナフタレン	91-20-3	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs 2) Rubber, Plastic: 1	●																●
Phenanthrene	フィナンthren	85-01-8	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs 2) Rubber, Plastic: 1	●	●	●														
Pyrene		129-00-0	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs 2) Rubber, Plastic: 1	●	●	●														
Indeno[1,2,3-cd]pyrene		193-39-5	Reduced	1) Extender oils and extender oils in tyres; 2) Rubber and polymers in skin contact	1) Extender oils and extender oils in tyres: 10 for the sum of all PAHs 2) Rubber, Plastic: 1													●				●
1,3-Propanesultone		1120-71-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●											●			●

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
2-Propanone, reaction products with diphenylamine (PREPOD)		68412-48-6	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																		
Pyrrolidones, selected	ピロリドン類、抜粋					●																		
1-Methylpyrrolidin-2-one (2-Pyrrolidinone, 1-methyl ) (NMP)	N-メチル-2-ピロリドン	872-50-4	Prohibited	Paint solvents contained in leather and ink Textile products, other than clothing, that come into contact with human skin	Textile products, other than clothing, in contact with human skin 3000	●		●	●										●		●			
N-Ethyl-2-pyrrolidone (NEP)		2687-91-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●					
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; Alkyl (C12-16) dimethylbenzyl ammonium chloride; C12-16-ADBAC;	塩化ベンジル[アルキル(C12~16)]ジメチルアンモニウム化合物	68424-85-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite		71011-24-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite		71011-26-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides;	塩化ビス(水素化牛脂)ジメチルアンモニウム化合物	61789-80-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite		68953-58-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Quaternary ammonium compounds, dicocoalkyldimethyl, chlorides	塩化ジココアルキルジメチルアンモニウム化合物	61789-77-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Resin acids and Rosin acids, calcium salts		9007-13-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Resin acids and Rosin acids, sodium salts		61790-51-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Resin acids and Rosin acids, hydrogenated, esters with pentaerythritol	水添ロジン・レジンのペンタエリトリールのエステル	64365-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Resin acids and Rosin acids, hydrogenated, esters with glycerol	水素化ロジン酸・レジン酸とグリセロールのエステル	65997-13-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Resin acids and Rosin acids, hydrogenated, methyl esters		8050-15-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Radioactive substances (including scrap metal contaminants), all members	放射性物質 (金属くずの汚染物質を含む)、全て					●																		
Plutonium	プルトニウム	7440-07-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited	●																		
Radium	ラジウム	7440-14-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited	●																		
Thorium	トリウム	7440-29-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited	●	●																	
Thorium Dioxide	二酸化トリウム	1314-20-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited	●																●		
Uranium	ウラン	7440-61-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited	●	●																	
Uranium Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited	●	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Radon	ラドン	10043-92-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited		●																
Americium-241		14596-10-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited		●																
Cesium-137		10045-97-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited		●																
Strontium-90		10098-97-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Use at background level or higher is prohibited		●																
Selenium and its compounds, all members	セレンおよびその化合物、全て					●																	
Arsenic selenide (As <sub>2</sub> Se <sub>3</sub> )	三セレン化二砒素	1303-36-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●														
Barium selenite	亜セレン酸バリウム	13718-59-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Beryllium selenide (BeSe)	セレン化ベリリウム (BeSe)	12232-25-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●															●		
Bis(ethylselenyl)diiron tetranitrosyl (6CI)		15025-89-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
C.I. Pigment Orange 20 (Cadmium sulfoselenide orange)	ヒメグマオレンジ 20	12656-57-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
C.I. Pigment Red 108 Cadmium sulfoselenide red	カドミウム赤	58339-34-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide (CdSe)	セレン化カドミウム	1306-24-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物の固溶体中の亜セレン酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛、銅、アルミニウムと銅ドープ塗料	101357-00-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物の固溶体中の亜セレン酸カドミウム、銅とマンガンドープ塗料	101357-01-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物の固溶体中の亜セレン酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛、銅、マンガンと銅ドープ塗料	101357-02-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物の固溶体中の亜セレン酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛、銅、マンガンと銅ドープ塗料	101357-03-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped	亜硫酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛混合物の固溶体中の亜セレン酸カドミウム、亜セレン酸亜鉛、亜硫酸亜鉛、銅、マンガンと銅ドープ塗料	101357-04-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide sulfide (Cd <sub>2</sub> (Se,S))	硫化セレン化カドミウム	12626-36-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide sulfide (Cd <sub>2</sub> SeS)	硫化セレン化カドミウム	12214-12-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide sulfide (CdSe <sub>0.53</sub> S <sub>0.47</sub> )	硫化セレン化カドミウム (CdSe <sub>0.53</sub> S <sub>0.47</sub> )	71243-75-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide sulfide, (Cd <sub>2</sub> SeS)	硫化セレン化カドミウム, (Cd <sub>2</sub> SeS)	12213-70-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cadmium selenide sulphide	硫化セレン化カドミウム	11112-63-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●	
Cobalt selenide (CoSe)	セレン化コバルト	1307-99-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Cobalt(2+) selenite	亜セレン酸コバルト	10026-23-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Dimethylselenide		593-79-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	
Hydrogen selenide	セレン化水素	7783-07-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Iron selenide	セレン化鉄	1310-32-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Lead selenate	セレン酸鉛(Ⅱ)	7446-15-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●					●					●
Lead selenide (PbSe)	セレン化鉛(Ⅱ)	12069-00-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●	●		●		●	●					●					●
Lead selenite	亜セレン化鉛	7488-51-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●					●					●
Mercury selenide (HgSe)	セレン化水銀(Ⅱ)	20601-83-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●					●	●										●
Nickel selenate	セレンニカド(Ⅱ)	15060-62-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●
Nickel selenide	セレンニカド(Ⅱ)	1314-05-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●
Nickel(2+) selenite	セレンニカド(Ⅱ)	10101-96-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●										●			●
Selenic acid	セレン酸	7783-08-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Selenic acid, cadmium salt (1:1)	セレン酸カドミウム	13814-62-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●
Selenic acid, cobalt(2+) salt (1:1)	セレン酸コバルト(Ⅱ)	14590-19-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Selenious acid	亜セレン酸	7783-00-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Selenious acid, cadmium salt (1:1)	亜セレン酸カドミウム(1:1)	13814-59-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●		●	●										●
Selenium	セレン	7782-49-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Selenium dioxide	二酸化セレン	7446-08-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Selenium hexafluoride	六フ化セレン(VI)	7783-79-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Selenium oxide	二酸化セレン	12640-89-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Selenium sulfide		7446-34-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Sodium-selenite		10102-18-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Thallium selenide (Tl2Se)	セレン化タリウム(Ⅰ)	15572-25-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Thallium(I) selenide	セレン化タリウム(Ⅰ)	12039-52-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Zinc selenide	セレン化亜鉛	1315-09-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Silica, crystalline	結晶性珪酸	14808-60-7	Observation	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●																
Sodium azide	アゾ化ナトリウム	26628-22-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Styrene ( Vinyl benzene )	スチレン (ビニルベンゼン)	100-42-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Styrene oxide (Epoxy styrene)	酸化スチレン(エポキシスチレン)	96-09-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●													●			●
Sulfonic acids, C10-18-alkane, phenyl esters		70775-94-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Sulfonic acids, petroleum, calcium salts, overbased		68783-96-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Sulfonic acids, petroleum, barium salts		61790-48-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Sulfonic acids, petroleum, calcium salts		61789-86-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Sulfonic acids, petroleum, magnesium salts		61789-87-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Sulfonic acids, petroleum, sodium salts		68608-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
4,4'-sulphonylbis[2,6-dibromophenol],Tetrabromobisphenol S, (TBBPS)		39635-79-5	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900	●	●																	
Sulfur hexafluoride	六フッ化硫黄	2551-62-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																	
Tall Oil		8002-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Tall oil pitch		8016-81-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Terphenyl, hydrogenated		61788-32-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●							●									
1,4-dicyclohexylbenzene		1087-02-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000										●									
1,1'-Biphenyl, 3-cyclohexyl-		1973-15-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000										●									
1,1'-Biphenyl, 4-cyclohexyl-		3842-58-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000										●									
[1,1'-bicyclohexyl]-4-ylbenzene		20273-27-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000										●									
Cyclohexyl-1,1'-biphenyl		27985-87-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000										●									
Tercyclohexyl		35860-22-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000										●									
4-tert-Butylphenol		98-54-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●																
1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1	1,4,5,8-テトラアミノアントラキノン; C.I. ヲスル <sup>®</sup> -スブルー-1	2475-45-8	Prohibited/Observation	To be prohibited: Textile products other than clothing that come into contact with human skin To be controlled: Applications other than those prohibited	To be prohibited: Textile products other than clothing that come into contact with human skin. 50 To be controlled: Relative to the weight of component parts and materials 1000	●												●			●			
Tetrabromobisphenol A (TBBPA)	テトラブロムビスフェノールA (TBBPA)	79-94-7	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900	●	●															●		
Tetrachlorobenzene, all members	テトラクロロベンゼン、全て					●																		
1,2,3,4-tetrachlorobenzene	1,2,3,4-テトラクロロベンゼン	634-66-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●															●			
1,2,3,5-Tetrachlorobenzene (Benzene, 1,2,3,5-tetrachloro- )	1,2,3,5-テトラクロロベンゼン	634-90-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●															●			
Benzene, tetrachloro-	テトラクロロベンゼン	12408-10-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●															●			
1,2,4,5- tetrachlorobenzene	1,2,4,5-テトラクロロベンゼン	95-94-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●															●			
Tetrafluoro-methane	テトラフルオロメタン	75-73-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●	●																	
N,N,N',N'-Tetramethyl-4,4'-methylenedianiline		101-61-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●													●			
Tetraphenyl m-phenylene bis(phosphate)		57583-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Thallium		7440-28-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Thioperoxydicarbonic diamide (([H2N)C(S)]2S2), tetramethyl-; Thiram; Tetramethylthiuram disulphide;	テトラメチルチウラムジスルファイド (別名チラム又はチラム)	137-26-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																		
Toluene	トルエン	108-88-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)	●			●													●		
o-Toluidine generating substances, selected	o-トルイジン生成物質、抜粋					●																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,3-Di-o-tolylguanidine, DOTG		97-39-2	Observation	All applications and products	Relative to the weight of component parts and materials 15000	●																
2,4,6-Triallyloxy-1,3,5-triazine		101-37-1	Observation	All applications and products	Relative to the weight of component parts and materials 15000	●																
Trichlorophenol and its salts, all members	トリクロロフェノールおよびその塩、全て		Observation	All applications and products	Relative to the weight of component parts and materials 15000	●																
2,4,5-Trichlorophenol	2,4,5-トリクロロフェノール	95-95-4	Observation	All applications and products	Relative to the weight of component parts and materials 15000	●																
2,4,6-Trichlorophenol	2,4,6-トリクロロフェノール	88-06-2	Observation	All applications and products	Relative to the weight of component parts and materials 15000	●															●	
Trichloropropane (1,2,3-Trichloropropane)	トリクロロプロパン (1,2,3-トリクロロプロパン)	96-18-4	Observation	All applications and products	Relative to the weight of component parts and materials 15000	●		●											●		●	
Trimethylphosphate	リン酸トリメチル	512-56-1	Observation	All applications and products	Relative to the weight of component parts and materials 15000	●															●	
Triorganotin compounds, all members	トリ有機スズ化合物、全て					●																
(2-BIPHENYLOXY)TRIBUTYLTIN	(2-ビフェニルオキシ)トリブチルスズ	3644-37-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																
(Chloroacetoxy)triphenylstannane	[(クロロアセトキシ)トリフェニル]スズ	7094-94-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●									
[1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-Tributyl[[[1,2,3,4,4a,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthryl]carbonyl]oxy]stannane	トリブチル[[[1,2,3,4,4a,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthryl]carbonyl]oxy]スズ	26239-64-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●									
1,3,5-TRIS(TRIBUTYLTIN)-S-TRIAZINE-2,4,6-TRIONE	1,3,5-トリブチルスズ-S-トリアジン-2,4,6-トリアゾン	752-58-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																
2-BUTENOIC ACID, 4-OXO-4-[(TRIBUTYLSTANNYL)OXY]-	4-オキソ-4-トリブチルスズオキシブテン酸	4027-18-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																
BIS(TRIBUTYLTIN) ITACONATE	ビス(トリブチルスズ)イタコン酸	25711-26-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																
Bis(tributyltin)oxide	ビス(トリブチルスズ)酸化物	56-35-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●	●					●									
Bis(tris(2-methyl-2-phenylpropyl)tin) oxide		13356-08-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																
Bis(tributyltin) maleate	ビス(トリブチルスズ)マレ酸	14275-57-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●									
Bis(tributyltin)phthalate	ビス(トリブチルスズ)フタル酸	4782-29-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●									
Bis(tributylstanny)lFumarate	ビス(トリブチルスズ)フマル酸	6454-35-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●									
Bromotrimethylstannane	トリメチルスズブロミド	1066-44-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																
P-NITROPHENOXYTRIBUTYLTIN	p-ニトロフェノキシトリブチルスズ	3644-32-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																
Stannane, acetoxytriphenyl-	トリフェニルアセトキシスズ	900-95-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●									
Stannane, bromotriethyl-	トリエチルスズブロミド	2767-54-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p pm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Stannane, fluorotriphenyl-	トリフェニルフルスタン	379-52-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Stannane, tributylfluoro-	トリブチルフルスタン	1983-10-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Tributyl(lauroyloxy)stannane	トリブチルステアレート	3090-36-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Tributyl(neodecanoyloxy)stannane	トリブチルネオデカン酸エステル	28801-69-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyl(oleoyloxy)stannane	トリブチルオレイン酸エステル	3090-35-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin	トリブチルチン	56573-85-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin (and salts and esters)	水素化トリブチルチン	688-73-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin .alpha.-(2,4,5-trichlorophenoxy) propionate	α-(2,4,5-トリクロロフェノキシ)トリブチルチン	73940-89-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin .beta.-iodopropionate	β-ヨウ化トリブチルチン	73927-95-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
TRIBUTYL TIN 2-ETHYLHEXANOATE	2-エチルヘキサノ酸トリブチルチン	5035-67-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin acetate	トリブチルチン酢酸エステル	56-36-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Tributyltin Acrylate	酢酸トリブチルチン	13331-52-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin benzoate	トリブチルチン安息香酸エステル	4342-36-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin bromide	トリブチルチン臭化銅	1461-23-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin chloride	トリブチルチン塩化銅	1461-22-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
TRIBUTYL TIN CHLOROACETATE	塩化酢酸トリブチルチン	5847-52-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin cinnamate	トリブチルチンシナモイン酸エステル	27147-18-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
TRIBUTYL TIN CYANATE	シアニドトリブチルチン	4027-17-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
TRIBUTYL TIN CYANIDE	トリブチルチンシアニド	2179-92-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin dimethyldithiocarbamate	ジメチルジチオカルバマートトリブチルチン	20369-63-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p pm	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
TRIBUTYLTIN GAMMA-CHLOROBUTYRATE	γ-クロロブチルトリブチル錫	33550-22-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin hydroxide	水酸化トリブチル錫	1067-97-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin iodide	トリブチル錫ヨウ化物	7342-47-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin iodoacetate	ヨウ化酢酸トリブチル錫	73927-91-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin isooctylthioacetate	イソオクチルチオ酢酸トリブチル錫	73927-97-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
TRIBUTYLTIN ISOPROPYLSUCCINATE	イソプロピルサクシネートトリブチル錫	53404-82-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin isothiocyanate	イソチオシアネートトリブチル錫	681-99-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin linoleate	リノール酸トリブチル錫	24124-25-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin methacrylate	メタクリル酸トリブチル錫	2155-70-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●									●	
TRIBUTYLTIN METHANESULPHONATE	メタンサルホン酸トリブチル錫	13302-06-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin methoxide	トリブチル錫メトキシド	1067-52-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin monopropylene glycol maleate	モノプロピレングリコールマレートトリブチル錫	53466-85-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
TRIBUTYLTIN NAPHTHENATE	ナフテン酸トリブチル錫	36631-23-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin naphthenate	ナフテン酸トリブチル錫	85409-17-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Tributyltin nonanoate	ノナン酸トリブチル錫	4027-14-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
TRIBUTYLTIN O-iodobenzoate	o-ヨウ化安息香酸トリブチル錫	73927-93-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
TRIBUTYLTIN P-iodobenzoate	p-ヨウ化安息香酸トリブチル錫	73940-88-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tributyltin sulfamate	スルファミン酸トリブチル錫	6517-25-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
TRIBUTYLTIN UNDECYLENATE	ウンデシレン酸トリブチル錫	69226-47-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
1-(Tricyclohexylstannyl)-1H-1,2,4-triazole		41083-11-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Triethyltin acetate	酢酸トリエチルチン	1907-13-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Triethyltin chloride	塩化トリエチルチン	994-31-0	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Triethyltin hydroxide	水酸化トリエチルチン	994-32-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Triethyltin iodide	ヨ化トリエチルチン	2943-86-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Triethyltin phenoxide	トリエチルチンフェノキシド	1529-30-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Trimethyltin acetate	酢酸トリメチルチン	1118-14-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Trimethyltin azide	アゾ化トリメチルチン	1118-03-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Trimethyltin chloride	塩化トリメチルチン	1066-45-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Trimethyltin hydroxide	水酸化トリメチルチン	56-24-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Trimethyltin iodide	ヨ化トリメチルチン	811-73-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Trimethyltin sulphate	硫酸トリメチルチン	63869-87-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Trimethyltin thiocyanate	チオシアネートトリメチルチン	4638-25-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tri-n-butyl tin salicylate	サリチル酸トリ-n-ブチルチン	4342-30-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Triphenylstannyl decanoate	トリフェニルスタニルデカノート	47672-31-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Triphenyl tin chloride	トリフェニルチン塩化	639-58-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Triphenyltin dimethyldithiocarbamate	トリフェニルチン=N,N-ジメチルジチオカルバマート	1803-12-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●										
Triphenyltin hydride	水素化トリフェニルチン	892-20-6	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Triphenyltin hydroxide	水酸化トリフェニルチン	76-87-9	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●						●								●		
Triphenyltin iodide	ヨ化トリフェニルチン	894-09-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tripropyltin acetate	酢酸トリプロピルチン	3267-78-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p pm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Tripropyltin bromide	臭化トリブチルスズ	2767-61-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tripropyltin chloride	塩化トリブチルスズ	2279-76-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tripropyltin iodide	ヨウ化トリブチルスズ	7342-45-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tripropyltin iodoacetate	ヨウ化酢酸トリブチルスズ	73927-92-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tripropyltin laurate	乳酸トリブチルスズ	57808-37-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tripropyltin methacrylate	メタクリル酸トリブチルスズ	4154-35-2	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●																	
Tricyclohexyl Tin Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●																
Triethyl Tin Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●																
Trihexyl Tin Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●																
Trimethyl Tin Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●																
Trioctyl Tin Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●																
Triphenyl Tin Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●																
Tripropyl Tin Compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000	●	●																
Triphenyltin fattyacid((9-11)salt)		18380-71-7	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000		●						●										
Triphenyltin fattyacid((9-11)salt)		18380-72-8	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000		●						●										
Triphenyltin fattyacid((9-11)salt)		94850-90-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000		●						●										
Bis(tributyltin)2,3-dibromosuccinate	ビス(トリブチルスズ)2,3-ジブチルジブロムサクシネート	31732-71-5	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000		●						●										
Copolymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	アクリレート、メタクリレート、およびトリブチルスズメタクリレートの共重合体(アクリル;C=8)	67772-01-4	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000		●						●										
Tributyltinchloride		7342-38-3	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000		●																

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Other tri-substituted organostannic compounds		-	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials Tin concentration 1000		●															
Triphenylphosphate	トリフェニルリン酸	115-86-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione		2451-62-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●											●			
Tris(1,3-dichloro-2-propyl)phosphate	トリ(1,3-ジクロロ-2-プロピル)リン酸	13674-87-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●														●	
Tris-(1-aziridinyl) phosphine oxide	トリス-(1-アジリジン)リン酸オキシド	545-55-1	Prohibited	All applications and products	Intentional addition Impurity: relative to the weight of component parts and materials 1000	●			●													
Tris(2-chloro-1-methylethyl) phosphate	トリ(2-クロロ-1-メチルエチル)リン酸	13674-84-5	Prohibited	All applications and products	By Weight of Laminates. Total chlorine concentration 1000	●	●															
Tris(2,3-dibromopropyl)phosphate (TRIS)	トリ(2,3-ジブロモプロピル)リン酸 (TRIS)	126-72-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	●			●													●
Tris(2-chloroethyl)phosphate	トリ(2-クロロエチル)リン酸	115-96-8	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000	●	●	●		●									●			●
Tris(2-ethylhexyl)-benzene-1,2,4-tricarboxylate		3319-31-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Tris(methylphenyl) phosphate		1330-78-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Tris(nonylphenyl) phosphite (TNPP)		26523-78-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●		●														
Trixylyl phosphate	トリキシルリン酸	25155-23-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●	●	●		●									●			
UVCB-Diamines, all members	UVCB 物質、全て					●																
Amines, N-C16-18-alkyl (evennumbered) propane-1,3-diamine		133779-11-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Vanadium pentoxide (orthorhombic crystalline form)		1314-62-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																●
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)		4259-15-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	●																
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]		-	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●															
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]		-	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●															
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]		-	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●															
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls] in combination with antimony compounds]		-	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●															
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]		-	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●															
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]		-	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Poly(2,6-dibromo-phenylene oxide)	ポリ(2,6-ジブロモフェニレンオキド)	69882-11-7	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tetra-decaboro-diphenoxy-benzene		58965-66-5	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
1,2-Bis(2,4,6-tribromo-phenoxy) ethane		37853-59-1	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA, unspecified		30496-13-0	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA-epichlorhydrin oligomer		40039-93-8	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA-TBBA-diglycidyl-ether oligomer		70682-74-5	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA carbonate oligomer	TBBA(炭酸樹脂)	28906-13-0	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA carbonate oligomer, phenoxy end capped		94334-64-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA carbonate oligomer, 2,4,6-tribromophenol terminated		71342-77-3	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA-bisphenol A-phosgene polymer		32844-27-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Brominated epoxy resin end-capped with tribromophenol	臭素化エポキシ樹脂、トリブロモフェニルエーテルで封鎖された	139638-58-7	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Brominated epoxy resin end-capped with tribromophenol	臭素化エポキシ樹脂、トリブロモフェニルエーテルで封鎖された	135229-48-0	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA bis-(2-hydroxy-ethyl-ether)		4162-45-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA bis-(allyl-ether)		25327-89-3	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBA-dimethyl-ether		37853-61-5	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBBS-bis-(2,3-dibromo-propyl-ether)		42757-55-1	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
2,4-Dibromo-phenol		615-58-7	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,4,6-tribromo-phenol		118-79-6	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Pentabromo-phenol		608-71-9	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
2,4,6-Tribromo-phenyl-allyl-ether		3278-89-5	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tribromo-phenyl-allyl-ether, unspecified		26762-91-4	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Bis(methyl)tetrabromo-phthalate		55481-60-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Bis(2-ethylhexyl)tetrabromo-phthalate		26040-51-7	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP		20566-35-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
TBPA, glycol-and propylene-oxide esters		75790-69-1	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)		52907-07-0	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
2,3-Dibromo-2-butene-1,4-diol	2,3-ジブromo-2-ブテン-1,4-ジオール	3234-02-4	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Dibromo-neopentyl-glycol		3296-90-0	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●	●											●		●		
Dibromo-propanol		96-13-9	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●	●											●		●		
Tribromo-neopentyl-alcohol		36483-57-5	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●	●															
Poly tribromo-styrene		57137-10-7	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tribromo-styrene		61368-34-1	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Dibromo-styrene grafted PP		171091-06-8	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Poly-dibromo-styrene		31780-26-4	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Bromo-/Chloro-paraffins		68955-41-9	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Bromo-/Chloro-alpha-olefin		82600-56-4	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Vinylbromide		593-60-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●												●		●		
Tris-(2,3-dibromo-propyl)-isocyanurate		52434-90-9	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tris(2,4-Dibromo-phenyl) phosphate		49690-63-3	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tris(tribromo-neopentyl) phosphate		19186-97-1	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Chlorinated and brominated phosphate ester	塩素化、臭素化リン酸エステル	125997-20-8	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Pentabromo-toluene		87-83-2	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Pentabromo-benzyl bromide		38521-51-6	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
1,3-Butadiene homopolymer, brominated	臭素化1,3-ブタジエンホモポリマー	68441-46-3	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Pentabromo-benzyl-acrylate, monomer		59447-55-1	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Pentabromo-benzyl-acrylate, polymer		59447-57-3	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tribromo-bisphenyl-maleinimide		59789-51-4	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)		155613-93-7	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tetrabromo-cyclo-octane		31454-48-5	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
1,2-Dibromo-4-(1,2 dibromo-ethyl)-cyclo-hexane		3322-93-8	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																
Tetrabromophthalic acid Na salt		25357-79-3	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●																



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Tetrabromo phthalic anhydride		632-79-1	Observation	All applications and products	With respect to the weight of plastics material excluding laminated plates Total bromine concentration 1000 Relative to the weight of the laminate Total bromine concentration 900		●															
Aluminosilicate Refractory Ceramic Fibres		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Zirconia Aluminosilicate Refractory Ceramic Fibres		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Bis(2-methoxyethyl) ether		111-96-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●	●										●			
Tetrakis(2-chloroethyl)dichloroisopentylidiphosphate		38051-10-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●															
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)		112-49-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●											●			
Pyrochlore, antimony lead yellow		8012-00-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)		●	●	●													
1,2-diethoxyethane		629-14-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●											●			
Silicic acid (H2Si2O5), barium salt (1:1), lead-doped		68784-75-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)		●	●	●													
N-pentyl-isopentylphthalate		776297-69-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●		●												
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		68515-50-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●		●									●			
1,4:7,10-Dimethanodibenzo[a,e]cyclooctene, 1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-, (1R,4S,4aS,6aS,7S,10R,10aR,12aR)-rel-		135821-74-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
2,2-bis(4'-hydroxyphenyl)-4-methylpentane		6807-17-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●											●			
Fluoranthene		206-44-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Phenol, 4-nonyl, phosphite		3050-88-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Phenol, p-isononyl-, phosphite		31631-13-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Phenol, p-sec-nonyl-, phosphite		106599-06-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Diisohexyl phthalate		71850-09-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●											●			
N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate		25628-08-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
1,2,4,5,7,8-Hexachloronaphthalene	1,2,4,5,7,8-ヘキサクロロナフタレン	103426-92-2	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,4,5,8-Hexachloronaphthalene	1,2,3,4,5,8-ヘキサクロロナフタレン	103426-93-3	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,5,7,8-Hexachloronaphthalene	1,2,3,5,7,8-ヘキサクロロナフタレン	103426-94-4	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,5,6,8-Hexachloronaphthalene	1,2,3,5,6,8-ヘキサクロロナフタレン	103426-95-5	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,4,6,7-Hexachloronaphthalene	1,2,3,4,6,7-ヘキサクロロナフタレン	103426-96-6	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,5,6,7-Hexachloronaphthalene	1,2,3,5,6,7-ヘキサクロロナフタレン	103426-97-7	Prohibited	All applications and products	Intentional addition		●						●					●		●		
Hexachloronaphthalene	ヘキサクロロナフタレン	1335-87-1	Prohibited	All applications and products	Intentional addition		●						●					●		●		
Tetrachloronaphthalene	テトラクロロナフタレン	1335-88-2	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,6-Tetrachloronaphthalene	1,2,3,6-テトラクロロナフタレン	149864-78-8	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,6,7-Tetrachloronaphthalene	1,2,6,7-テトラクロロナフタレン	149864-79-9	Prohibited	All applications and products	Intentional addition		●						●					●		●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1,2,5,8-Tetrachloronaphthalene	1,2,5,8-テトラクロロナフthalen	149864-80-2	Prohibited	All applications and products	Intentional addition		●					●					●		●			
1,2,3,8-Tetrachloronaphthalene	1,2,3,8-テトラクロロナフthalen	149864-81-3	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,7,8-Tetrachloronaphthalene	1,2,7,8-テトラクロロナフthalen	149864-82-4	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,3,7,8-Pentachloronaphthalene	1,2,3,7,8-ヘキサクロロナフthalen	150205-21-3	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,3,6,8-Tetrachloronaphthalene	1,3,6,8-テトラクロロナフthalen	150224-15-0	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,3,6,7-Pentachloronaphthalene	1,2,3,6,7-ヘキサクロロナフthalen	150224-16-1	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,4,6,7-Pentachloronaphthalene	1,2,4,6,7-ヘキサクロロナフthalen	150224-17-2	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,3,5,6-Pentachloronaphthalene	1,2,3,5,6-ヘキサクロロナフthalen	150224-18-3	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,4,5,7-Pentachloronaphthalene	1,2,4,5,7-ヘキサクロロナフthalen	150224-19-4	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,4,5,6-Pentachloronaphthalene	1,2,4,5,6-ヘキサクロロナフthalen	150224-20-7	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,4,7,8-Pentachloronaphthalene	1,2,4,7,8-ヘキサクロロナフthalen	150224-21-8	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,4,6,8-Pentachloronaphthalene	1,2,4,6,8-ヘキサクロロナフthalen	150224-22-9	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,3,6,8-Pentachloronaphthalene	1,2,3,6,8-ヘキサクロロナフthalen	150224-23-0	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,3,5,8-Pentachloronaphthalene	1,2,3,5,8-ヘキサクロロナフthalen	150224-24-1	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,4,5,8-Pentachloronaphthalene	1,2,4,5,8-ヘキサクロロナフthalen	150224-25-2	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,3,6,7,8-Hexachloronaphthalene	1,2,3,6,7,8-ヘプタクロロナフthalen	17062-87-2	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,5-Dichloronaphthalene	1,5-ジクロロナフthalen	1825-30-5	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,4-Dichloronaphthalene	1,4-ジクロロナフthalen	1825-31-6	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2,3,4-Tetrachloronaphthalene	1,2,3,4-テトラクロロナフthalen	20020-02-4	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,2-Dichloronaphthalene	1,2-ジクロロナフthalen	2050-69-3	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,6-Dichloronaphthalene	1,6-ジクロロナフthalen	2050-72-8	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,7-Dichloronaphthalene	1,7-ジクロロナフthalen	2050-73-9	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,8-Dichloronaphthalene	1,8-ジクロロナフthalen	2050-74-0	Prohibited	All applications and products	Intentional addition		●					●						●		●		
2,3-Dichloronaphthalene	2,3-ジクロロナフthalen	2050-75-1	Prohibited	All applications and products	Intentional addition		●					●						●		●		
2,6-Dichloronaphthalene	2,6-ジクロロナフthalen	2065-70-5	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,3-Dichloronaphthalene	1,3-ジクロロナフthalen	2198-75-6	Prohibited	All applications and products	Intentional addition		●					●						●		●		
2,7-Dichloronaphthalene	2,7-ジクロロナフthalen	2198-77-8	Prohibited	All applications and products	Intentional addition		●					●						●		●		
Perchloronaphthalene		2234-13-1	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,4,6-Trichloronaphthalene	1,4,6-トリクロロナフthalen	2437-54-9	Prohibited	All applications and products	Intentional addition		●					●						●		●		
1,4,5-Trichloronaphthalene	1,3,5-トリクロロナフthalen	2437-55-0	Prohibited	All applications and products	Intentional addition		●					●						●		●		
Chloronaphthalene		25586-43-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●					●						●		●		
Dichloronaphthalene		28699-88-9	Prohibited	All applications and products	Intentional addition		●					●						●		●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
1,3,5,8-Tetrachloronaphthalene	1,3,5,8-テトラクロロナフthalen	31604-28-1	Prohibited	All applications and products	Intentional addition		●					●					●		●				
Heptachloronaphthalene	ヘプタクロロナフthalen	32241-08-0	Prohibited	All applications and products	Intentional addition		●					●						●					
1,4,5,8-Tetrachloronaphthalene	1,4,5,8-テトラクロロナフthalen	3432-57-3	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide		34454-97-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●																
2,3,6,7-Tetrachloronaphthalene	2,3,6,7-テトラクロロナフthalen	34588-40-4	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonyl fluoride		375-72-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●																
1,2,4-Trichloronaphthalene	1,2,4-トリクロロナフthalen	50402-51-2	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,3-Trichloronaphthalene	1,2,3-トリクロロナフthalen	50402-52-3	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,3,5-Trichloronaphthalene	1,3,5-トリクロロナフthalen	51570-43-5	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,6-Trichloronaphthalene	1,3,6-トリクロロナフthalen	51570-44-6	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,4,6-Tetrachloronaphthalene	1,2,4,6-テトラクロロナフthalen	51570-45-7	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,3,5-Tetrachloronaphthalene	1,2,3,5-テトラクロロナフthalen	53555-63-8	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,3,5,7-Tetrachloronaphthalene	1,2,5,7-テトラクロロナフthalen	53555-64-9	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,3,5,7-Pentachloronaphthalene	1,2,3,5,7-ヘキサクロロナフthalen	53555-65-0	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,5-Trichloronaphthalene	1,2,5-トリクロロナフthalen	55720-33-7	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,7-Trichloronaphthalene	1,2,7-トリクロロナフthalen	55720-34-8	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,8-Trichloronaphthalene	1,2,8-トリクロロナフthalen	55720-35-9	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,3,6-Trichloronaphthalene	1,3,6-トリクロロナフthalen	55720-36-0	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,3,7-Trichloronaphthalene	1,3,7-トリクロロナフthalen	55720-37-1	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,3,8-Trichloronaphthalene	1,3,8-トリクロロナフthalen	55720-38-2	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,6,7-Trichloronaphthalene	1,6,7-トリクロロナフthalen	55720-39-3	Prohibited	All applications and products	Intentional addition		●					●						●		●			
2,3,6-Trichloronaphthalene	2,3,6-トリクロロナフthalen	55720-40-6	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,3,7-Tetrachloronaphthalene	1,2,3,7-テトラクロロナフthalen	55720-41-7	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,3,6,7-Tetrachloronaphthalene	1,3,6,7-テトラクロロナフthalen	55720-42-8	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,4,6,7-Tetrachloronaphthalene	1,4,6,7-テトラクロロナフthalen	55720-43-9	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,3,4,5,6,7-Heptachloronaphthalene	1,2,3,4,5,6,7-ヘキサクロロナフthalen	58863-14-2	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,3,4,5,6,8-Heptachloronaphthalene	1,2,3,4,5,6,8-ヘキサクロロナフthalen	58863-15-3	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,3,4,5,6-Hexachloronaphthalene	1,2,3,4,5,6-ヘキサクロロナフthalen	58877-88-6	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,4,8-Tetrachloronaphthalene	1,2,4,8-テトラクロロナフthalen	6529-87-9	Prohibited	All applications and products	Intentional addition		●					●						●		●			
Tris(2,3-dichloro-1-propyl)phosphate		66108-37-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●																
1,2,4,5-Tetrachloronaphthalene	1,2,4,5-テトラクロロナフthalen	6733-54-6	Prohibited	All applications and products	Intentional addition		●					●						●		●			
1,2,4,7-Tetrachloronaphthalene	1,2,4,7-テトラクロロナフthalen	67922-21-8	Prohibited	All applications and products	Intentional addition		●					●						●		●			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,2,5,6-Tetrachloronaphthalene	1,2,5,6-テトラクロロナフthalen	67922-22-9	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,5,7-Tetrachloronaphthalene	1,2,5,7-テトラクロロナフthalen	67922-23-0	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,6,8-Tetrachloronaphthalene	1,2,6,8-テトラクロロナフthalen	67922-24-1	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,4,5-Pentachloronaphthalene	1,2,3,4,5-ペンタクロロナフthalen	67922-25-2	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,4,6-Pentachloronaphthalene	1,2,3,4,6-ペンタクロロナフthalen	67922-26-3	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1,2,3,4,5,7-Hexachloronaphthalene	1,2,3,4,5,7-ヘキサクロロナフthalen	67922-27-4	Prohibited	All applications and products	Intentional addition		●						●					●		●		
1-Chloronaphthalene	1-クロロナフthalen	90-13-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●															
1,2,4,5,6,8-Hexachloronaphthalene	1,2,4,5,6,8-ヘキサクロロナフthalen	90948-28-0	Prohibited	All applications and products	Intentional addition		●						●					●		●		
2-Chloronaphthalene	2-クロロナフthalen	91-58-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●															
Tetradecane, chloro derivs.		198840-65-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Alkanes, C14-16, chloro		1372804-76-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
boric acid (H3BO3), sodium salt, hydrate		25747-83-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Boric acid (H3BO3), disodium salt		22454-04-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Trisodium orthoborate		14312-40-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Boric acid, sodium salt		1333-73-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Orthoboric acid, sodium salt		13840-56-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●											●			
Boric acid (H3BO3), sodium salt (1:1)		14890-53-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Phenol, nonyl-, branched		90481-04-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
4-(3-ethylheptan-2-yl)phenol		186825-39-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
4-(1,1,5-Trimethylhexyl)phenol		521947-27-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
Isononylphenol		11066-49-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●														
6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol		119-47-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000		●	●												●		
Anthracene oil	アントラセンオイル	90640-80-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●	●											●		
Anthracene oil, anthracene paste	アントラセンオイル、アントラセンペースト	90640-81-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●												●		
Anthracene oil, anthracene paste, anthracene fraction	アントラセンオイル、アントラセンペースト、アントラセン留分	91995-15-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●												●		
Anthracene oil, anthracene paste, distr. lights		91995-17-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●												●		
Anthracene oil, anthracene-low	アントラセンオイル	90640-82-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●												●		
Hydrazine	ヒドラジン	7803-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
1,2-dichloroethane	1,2-ジクロロエタン	107-06-2	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●	●											●	●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Formaldehyde, oligomeric reaction products with aniline		25214-70-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●	●														
Phenolphthalein	3,3'-bis(4-ヒドロキシフェニル)-1,3-ジフェニルメタン-1-オン(別名フタール)	77-09-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●		●		
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)		59653-74-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol		561-41-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●														
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)		90-94-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●		●		
Formamide		75-12-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)		6786-83-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-bromopropane (n-propyl bromide)		106-94-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●	●										●		●		
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		143860-04-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
4,4'-oxydianiline and its salts		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
4-Nonylphenol, branched and linear		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
trans-cyclohexane-1,2-dicarboxylic anhydride		14166-21-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
cis-cyclohexane-1,2-dicarboxylic anhydride		13149-00-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Diethyl sulphate		64-67-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●		●		
Dimethyl sulphate		77-78-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●		●		
Furan	フワン	110-00-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●		●		
Methoxyacetic acid		625-45-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol		1119449-37-4	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●	●														
2-[2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy]ethanol		1119449-38-5	Prohibited	All applications and products (If the Product contains prohibited substances, please consult NSK.)	Relative to the weight of component parts and materials 1000			●	●														
4-Nonylphenol, branched and linear, ethoxylated		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2)		90568-23-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●														
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium, hydrate (1:2:6)		125022-34-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●														
Perboric acid (H3BO2(O2)), monosodium salt, trihydrate	過酸トリウム三水和物	13517-20-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●										●				
Perboric acid, sodium salt		11138-47-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●										●				
Sodium perborate		15120-21-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●										●				
Sodium peroxometaborate		7632-04-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●										●				
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
Reaction mass of 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane and 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		676367-06-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		676367-02-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		676367-07-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		676367-03-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		676367-08-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		676367-04-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-rel-		343934-05-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-		676367-09-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-rel-		343934-04-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-		676367-05-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-		186309-28-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
2-(2,4-Dimethylcyclohex-3-ene-1-yl)-5-methyl-(1-methylpropyl)-1,3-dioxane		117933-89-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
Reaction mass of 5-[(2R)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1R,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●		●												
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Nitrobenzene	ニトロベンゼン	98-95-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●										●		●		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Perfluoronon-1-oi-c-acid and its sodium and ammonium salts		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(5-methylhexan-3-yl)phenol		854904-92-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(2,3,3-trimethylbutan-2-yl)phenol		72861-06-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(2,4-dimethylpentan-2-yl)phenol		33104-11-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(2,3-dimethylpentan-2-yl)phenol		861011-60-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Phenol, 4-(1-ethyl-1,2-dimethylpropyl)-		30784-27-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Phenol, 4-tert-heptyl-		288864-02-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(2,4-dimethylpentan-3-yl)phenol		1824346-00-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(5-methylhexyl)phenol		100532-36-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(4-methylhexyl)phenol		1139800-98-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(3-methylhexyl)phenol		102570-52-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(3-ethylpentyl)phenol		911370-98-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(heptan-4-yl)phenol		6465-71-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(heptan-2-yl)phenol		6863-24-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(heptan-3-yl)phenol		6465-74-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(3-methylhexan-3-yl)phenol		30784-32-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(2,2-dimethylpentan-3-yl)phenol		861010-65-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(5-methylhexan-2-yl)phenol		857629-71-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(4-methylhexan-2-yl)phenol		71945-81-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(4,4-dimethylpentan-2-yl)phenol		911371-07-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(3-methylhexan-2-yl)phenol		854904-93-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(3,3-dimethylpentan-2-yl)phenol		911371-06-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(2-methylhexan-2-yl)phenol		30784-31-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-(3-ethylpentan-3-yl)phenol		37872-24-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Phenol, heptyl derivs.		72624-02-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-heptylphenol		1987-50-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
4-heptylphenol, branched and linear		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
p-(1,1-dimethylpropyl)phenol		80-46-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)		72033-41-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		1000597-52-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate		108427-54-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate		108427-55-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)		1187817-57-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		425670-70-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic		421555-74-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Sulfonium, (thiodi-4,1-phenylene)bis(diphenyl)-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)		421555-73-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, yttrium(3+) salt (3:1)		41242-12-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, neodymium(3+) salt (3:1)		41184-65-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, scandium(3+) salt (3:1)		350836-93-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		341548-85-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, gallium salt (9CI)		341035-71-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclo pentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		928049-42-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, cesium salt (1:1)		92011-17-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate		911027-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		911027-68-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)		910606-39-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI)		866621-50-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt		70136-72-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Iodonium, bis[4-(1,1- dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)		213740-81-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)		202189-84-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonic acid (1:1)		189274-31-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)		153443-35-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Quinolinium, 1-(carboxymethyl)-4-[2-[4- [4-(2,2-diphenylethyl)phenyl]- 1,2,3,3a,4,8b-hexahydrocyclopent[b]indol- 7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonate (1:1)		1462414-59-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)		144116-10-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonic acid ion(1-)(1:1)		1329995-69-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonic acid ion(1-)(1:1)		1329995-45-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Methanaminium, N-[4-[4- (dimethylamino)phenyl][4-(phenylamino)- 1-naphthalenyl]methylene]-2,5- cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)		1310480-28-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Methanaminium, N-[4-[4- (dimethylamino)phenyl][4-(ethylamino)-1- naphthalenyl]methylene]-2,5- cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)		1310480-27-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Ethanaminium, N-[4-[4- (diethylamino)phenyl][4-(ethylamino)-1- naphthalenyl]methylene]-2,5- cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)		1310480-24-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
Perfluorohexane-1-sulphonic acid and its salts		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
rel-(1R,4S,4aS,6aS,7S,10R,10aR,12aR)- 1,2,3,4,7,8,9,10,13,13,14,14- dodecachloro- 1,4,4a,5,6,6a,7,10,10a,11,12,12a- dodecahydro-1,4:7,10- dimethanodibenzo[a,e]cyclooctene		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
rel-(1R,4S,4aS,6aR,7R,10S,10aS,12aR)- 1,2,3,4,7,8,9,10,13,13,14,14- dodecachloro- 1,4,4a,5,6,6a,7,10,10a,11,12,12a- dodecahydro-1,4:7,10- dimethanodibenzo[a,e]cyclooctene		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														
1,6,7,8,9,14,15,16,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13 .05,10]octadeca-7,15-diene ("Dechlorane Plus™")		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Formaldehyde, reaction products with phenol heptyl derivs. and 1,3,4-thiadiazolidine-2,5-dithione		1471311-26-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●														
Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine		93925-00-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●														
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●														
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one		15087-24-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-		75579-39-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-		75579-40-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid		13252-13-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate		62037-80-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride		2062-98-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate		67118-55-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
tris (4-nonylphenol, branch) phosphorous acid ester		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
dimethyl(phenyl)sulfanium perfluorobutanesulfonate		220133-51-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
lithium perfluorobutanesulfonate		131651-65-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
magnesium perfluorobutanesulfonate		507453-86-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Triphenylsulfanium perfluorobutane sulfonate		144317-44-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
morpholinium perfluorobutanesulfonate		503155-89-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate		220689-12-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate		68259-10-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Perfluorobutane sulfonic acid (PFBS) and its salts		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
1-vinylimidazole		1072-63-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
2-methylimidazole		693-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●		●		
Butyl 4-hydroxybenzoate		94-26-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)		1522-92-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(2R)-3-(4-tert-butylphenyl)-2-methylpropanal		75166-31-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(2S)-3-(4-tert-butylphenyl)-2-methylpropanal		75166-30-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
2-(4-tert-butylbenzyl)propionaldehyde		80-54-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
di-, tri- and tetrachlorotetradecane		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Medium-chain chlorinated paraffins (MCCP)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Orthoboric acid, sodium salt (group)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Phenol, 4-isododecyl-		27147-75-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Phenol, tetrapropylene-		57427-55-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
4-isododecylphenol		27459-10-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		852541-25-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		741687-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		852541-21-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		852541-30-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		95342-41-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		1782069-81-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one		36861-47-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate		255881-94-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●															
tris(2-methoxyethoxy)vinylsilane		1067-53-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
N-(hydroxymethyl)acrylamide		924-42-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●											●				
Chloroethene		75-01-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●		●		
Soap bark powder (Quillaja saponaria) and its derivatives containing saponines		68990-67-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
o-Nitrobenzaldehyde		552-89-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
Ammonium hydrogen sulphide		12124-99-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
Ammonium polysulphide		9080-17-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
Ammonium sulphide		12135-76-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
Propyl bromoacetate	プロピルブロム酢酸エステル	35223-80-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
Butyl bromoacetate		18991-98-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
Ethyl bromoacetate	エチルブロム酢酸エステル	105-36-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
Methyl bromoacetate	メチルブロム酢酸エステル	96-32-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
2-naphthylammonium chloride		612-52-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Distillates (coal tar), upper; heavy anthracene oil		65996-91-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Creosote, wood		8021-39-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Creosote oil; wash oil		61789-28-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Tar acids, coal, crude; crude phenols		65996-85-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Distillates (coal tar), naphthalene oils; naphthalene oil		84650-04-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Creosote oil, acenaphthene fraction; wash oil		90640-84-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline		122384-78-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●										●				
Chloroform		67-66-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
1,1,2,2-Tetrachloroethane		79-34-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
Pentachloroethane	ペンタクロロエタン	76-01-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
1,1-Dichloroethene		75-35-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●												●		
Trichlorobenzene	トリクロロベンゼン	120-82-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														
2-(2-butoxyethoxy)ethanol (DEGBE)		112-34-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				●														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
4,4'-Methylenediphenyl diisocyanate		101-68-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Methylenediphenyl diisocyanate (MDI)		26447-40-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
2,4'-Methylenediphenyl diisocyanate		5873-54-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
2,2'-Methylenediphenyl diisocyanate		2536-05-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Cyclohexane	シクロヘキサン	110-82-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Phenylmercury octanoate		13864-38-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
1,4-Dichlorobenzene	1,4-ジクロロベンゼン	106-46-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													•		
Tetraammonium cerium tetrakis(sulphate)		7637-03-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium selenite		7783-19-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium selenate		7783-21-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Diammonium diuranium heptaoxide		7783-22-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Triammonium hexafluoroaluminate		7784-19-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Aluminium ammonium bis(sulphate)		7784-25-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium trioxovanadate		7803-55-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Diammonium iron bis(sulphate)		10045-89-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium iron phosphate		10101-60-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium manganese(3+) diphosphate		10101-66-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium iron bis(sulphate)		10138-04-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Diammonium dioxalato(oxo)titanate		10580-02-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium wolframate		11120-25-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Diammonium tetraborate		12007-58-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Hexaammonium heptamolybdate		12027-67-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium wolframate		12028-06-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Tetramanganese nitride		12033-07-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Diammonium hexachlororhenate		12051-87-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Tetraammonium disodium vanadate		12055-09-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Ammonium molybdate(VI)		13106-76-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															
Diammonium tetraoxotellurate		13453-06-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•															

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Ammonium chromium bis(sulphate)		13548-43-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium lanthanum pentanitrate		13566-21-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium manganese bis(sulphate)		13566-22-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium diamminetetraakis(thiocyanato-N)chromate(1-)		13573-16-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium copper(2+) disulphate		13587-25-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium perhenate		13598-65-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium gadolinium pentanitrate		13628-49-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium calcium trinitrate		13780-11-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium zinc disulphate		13814-87-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium tetrachloropalladate		13820-40-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium tetrachloroplatinate		13820-41-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium pentachloronitrosylruthenate		13820-58-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Bis(acetato-O)diamminecopper		13822-80-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium tetrafluoroborate		13826-83-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Sulphuric acid, ammonium cerium salt		13840-04-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium pentafluorozirconate(1-)		13859-62-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium sodium sulphate		13863-45-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Prussian blue		14038-43-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium trioxalatoferrate		14221-47-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium hexacyanoferrate		14221-48-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Tetraammonium hexacyanoferrate		14481-29-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium iron tartrate		14635-18-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium cerium(4+) trisulphate		14638-69-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium tetrachlorozincate(2-)		14639-97-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium pentachlorozincate(3-)		14639-98-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium magnesium bis(sulphate)		14727-95-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium scandium(3+) disulphate		15091-94-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Nitric acid, ammonium calcium salt		15245-12-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Ammonium trifluorohydroxyborate(1-)		15283-48-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium hexachlororhodate		15336-18-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium yttrium pentanitrate		15552-06-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium manganese phosphate		15609-81-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium tetrachlorocuprate		15610-76-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium neodymium pentanitrate		15653-40-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium tetrabromopalladate(2-)		15661-00-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium hexachloroiridate		15752-05-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexanitratocerate		16774-21-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium hexafluorosilicate		16919-19-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium hexafluorozirconate		16919-31-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexachloroplatinate		16919-58-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexachlorostannate		16960-53-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium hexafluorotitanate		16962-40-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium hexafluorogermanate(4)		16962-47-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium heptafluorozirconate(3-)		17250-81-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium hexabromoplatinate		17363-02-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Tetraammonium uranyl tricarbonate, of uranium depleted in uranium-235		18077-77-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexachlororuthenate		18746-63-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexachloropalladate		19168-23-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexakis(thiocyanato)platinate		19372-45-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium oxobis[sulphato(2-)-O]titanate(2-)		19468-86-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Sulphuric acid, ammonium magnesium salt		20861-69-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium samarium(3+) disulphate		21995-29-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium europium(3+) disulphate		21995-30-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium gadolinium(3+) disulphate		21995-31-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium lanthanum(3+) disulphate		21995-32-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium praseodymium(3+) disulphate		21995-33-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Ammonium neodymium(3+) disulphate		21995-34-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium iron tetrachloride		24411-12-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexabromoosmate(2-)		24598-62-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Acetic acid, ammonium zinc salt		24846-92-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium aquapentachlororuthenate		25461-53-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium bismuth citrate		25530-63-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium diaquaoctachloro-μ-nitridodiruthenate(3-)		27316-90-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium hexachloroosmate		12125-08-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium trivanadium octaoxide		12207-63-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium tetratungsten tridecaoxide		12398-61-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Tetraammonium hexamolybdate		12411-64-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium triiron tetracitrate		52336-55-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Diammonium tetracyanoplatinate		562-79-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium potassium tartrate		1114-14-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium iron(III) citrate		1185-57-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium iron(3+) trioxalate		2944-67-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium bismuth(3+) 2-hydroxypropane-1,2,3-tricarboxylate(2:1:1)		6591-52-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium bis(cyano-C)aurate		31096-40-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium tetrachloroaurate		31113-23-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Citric acid, ammonium bismuth salt		31886-41-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Triammonium tris[carbonato(2-)-O]hydroxyzirconate(3-)		32535-84-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ethanedioic acid, ammonium iron(3+) salt (3:3:1), trihydrate		13268-42-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Sulfuric acid, ammonium iron(3+) salt (2:1:1), dodecahydrate		7783-83-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Titanate(2-), bis[ethanedioato(2-)-O,O']oxo-, diammonium, monohydrate, (SP-5-21)-		10580-03-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Struvite [(NH4)Mg(PO4).6H2O]		15490-91-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Vanadate(3-), hexafluoro-, triammonium salt		13815-31-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Nitric acid, ammonium cerium(4+) salt (6:2:1)		10139-51-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														
Ammonium lanthanum nitrate		10169-00-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•														



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Aluminate(2-), difluoro[phosphato(3-)-κ O]-, ammonium hydrogen (1:1:1)		11095-65-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ferrate(2-), difluoro[phosphato(3-)-κO]-, ammonium hydrogen (1:1:1)		11095-66-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Vanadate (V10O286-), ammonium (1:6)		12208-00-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Cryptohalite		1309-32-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ammonium iron salt, hydrate		1332-98-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Mixtures of a permanganate with an ammonium salt		13446-10-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Sulfuric acid, aluminum ammonium salt (2:1:1), tetracosahydrate		14725-69-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium borate		22694-75-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Selenious acid, ammonium salt (2:1)		25425-97-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Boric acid (H3BO3), ammonium salt		27522-09-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Sulfuric acid, ammonium magnesium salt (3:2:2)		27733-50-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
azanium;lanthanum(3+);tetraniolate		31178-09-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium tetrathiotungstate [(NH4)2WS4]		13862-78-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Molybdate(2-), tetrathioxo-, diammonium, (T-4)-		15060-55-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium chromic sulfate dodecahydrate		10022-47-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Sulfuric acid, ammonium sodium salt, dihydrate		7783-10-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Sulfuric acid, ammonium zinc salt (2:2:1), hexahydrate		7783-24-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Sulfuric acid, ammonium magnesium salt (2:2:1), hexahydrate		7785-18-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Stannate(1-), trifluoro-, ammonium (9CI)		15660-29-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium cerous sulfate tetrahydrate		10049-02-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Chromate(1-), bis(benzenamine)tetrakis(thiocyanato-N)-, ammonium (9CI)		10380-20-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium paratungstate hexahydrate		12208-54-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium phosphotungstenate, trihydrate		12704-02-8	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium 12-tungstophosphate		1311-90-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ferrate(3-), hexafluoro-, triammonium salt		13815-28-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Platinate(1-), aminetrichloro-, ammonium, (SP-4-2)-		13820-94-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Ammonium hexafluorogallate		14639-94-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Cobalt ammonium complex		14695-95-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														
Nitric acid, ammonium cerium(3+) salt (5:2:1)		15318-60-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)			•														

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Tungstate(2-), dioxodithioxo-, diammonium (9CI)		16150-61-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Triammonium uranyl pentafluoride		12062-03-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Chromate(1-), diamminetetraakis(isothiocyanato)-, ammonium, hydrate		19441-09-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Ferrate(2-), [N,N-bis[2-(bis(carboxymethyl)amino)ethyl]glycinato(3-)]-, ammonium hydrogen		19529-40-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Vitaferro		19864-63-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Sulfuric acid, ammonium cerium(3+) salt (2:1:1)		21995-38-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Arsonic acid, methyl-, monoammonium salt		2321-53-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Carbonic acid, ammoniumplutonium salt (8CI)		24917-46-2	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Uranic acid, diammonium salt, hydrate		28347-83-3	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
1-Heptene-1-arsonic acid, 2-chloro-, monoammonium salt		300-88-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Molybdate(2-), tetrafluorodioxo-, diammonium (8CI,9CI)		30291-63-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Ammonium ferrocyanide trihydrate		32108-79-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Ammonium Tetrachloroaluminate, NH4AlCl4		7784-14-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Ammonium ferric chromate		7789-08-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
m-tolylidene diisocyanate		26471-62-5	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													•
4-methyl-m-phenylene diisocyanate		584-84-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Hexamethylene diisocyanate		822-06-0	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
2-methyl-m-phenylene diisocyanate		91-08-7	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate		91-97-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
1,3-bis(1-isocyanato-1-methylethyl)benzene		2778-42-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
1,5-naphthylene diisocyanate		3173-72-6	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
1,3-bis(isocyanatomethyl)benzene		3634-83-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate		4098-71-9	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
4,4'-methylenedicyclohexyl diisocyanate		5124-30-1	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
2,4,6-triisopropyl-m-phenylene diisocyanate		2162-73-4	Observation	All applications and products	Follow the REACH Restriction list (annex XVII)				•													
Aldrin	アリン	309-00-2	Prohibited	All applications and products	Intentional addition								•					•			•	
6-(1R, 2S, 3S, 6R, 7R, 8S, 9S, 11R) - 3,4,5,6,13,13-hexachloro-10-oxapentacyclo [6.3.1.1 (3,6) .0 (2, 7) .0 (9, 11)] tridec-4-ene		60-57-1	Prohibited	All applications and products	Intentional addition								•					•			•	
1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a, 5,6,7,8,8a-octahydro-1,4: 5,8-dimethanonaphthalene		128-10-9	Prohibited	All applications and products	Intentional addition								•					•				

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
6- (1R, 2R, 3R, 6S, 7S, 8S, 9S, 11R) - 3,4,5,6,13,13-hexachloro-10-oxapentacyclo [6.3.1.1 (3, 6) .0 (2, 7) .0 (9, 11)] tridec-4-ene		72-20-8	Prohibited	All applications and products	Intentional addition								●					●		●		
1,1,1-trichloro-2,2-bis (4-chlorophenyl) ethane (DDT)		50-29-3	Prohibited	All applications and products	Intentional addition								●					●		●	●	
1,3,4,7,8,9,10,10-octachlorotricyclo [5.2.1.0 (2,6)] deca-8-ene		57-74-9	Prohibited	All applications and products	Intentional addition								●					●			●	
1,5,7,8,9,10,10-heptachlorotricyclo [5.2.1.0 (2,6)] deca-3,8-diene		76-44-8	Prohibited	All applications and products	Intentional addition								●					●			●	
octachlorotricyclo [5.2.1.0 (2,6)] deca-8- (1, 2S, 3R, 4S, 6S, 7S) -1,3,4,7,8,9,10,10-En		5103-71-9	Prohibited	All applications and products	Intentional addition								●					●			●	
(3R, 4R, 6S, 7S) -1,3,4,7,8,9,10,10-octachlorotricyclo [5.2.1.0 (2,6)] deca-8-En		5103-74-2	Prohibited	All applications and products	Intentional addition								●					●			●	
1,4,4,7,8,9,10,10-octachlorotricyclo [5.2.1.0 (2,6)] deca-8-ene		5566-34-7	Prohibited	All applications and products	Intentional addition								●					●			●	
1, 8, 9, 10, 11, 11-hexachloro-4-oxatetracyclo [6.2.1.0 (2,7) .0 (3,5)] undeca-9-ene	1,8,9,10,11,11-ヘキサクロ-4-オキサテトラシクロ [6.2.1.0(2,7).0(3,5)]ウンデカ-9-エン	6058-23-7	Prohibited	All applications and products	Intentional addition								●					●			●	
Chlorden		12789-03-6	Prohibited	All applications and products	Intentional addition								●					●			●	
5a, 6a, 6S, 6aS) -2,3,4,5,6,6a, 7,7-octachloro-la, 1b, 5,5a, 6,6a-hexahydro-2H-2,5-Methanoindeno [1,2-b] oxylene		27304-13-8	Prohibited	All applications and products	Intentional addition								●					●			●	
(1, 4S, 7S, 8S, 9S) -2,3,4,5,6,9-hexachlorotricyclo [5.2.1.0 (4,8)] deca-2,5-diene		56534-03-3	Prohibited	All applications and products	Intentional addition								●					●			●	
(1, 4S, 7S, 8S, 10S) -2,3,4,5,6,10-hexachlorotricyclo [5.2.1.0 (4,8)] deca-2,5-diene		56641-38-4	Prohibited	All applications and products	Intentional addition								●					●			●	
Toxaphen		8001-35-2	Prohibited	All applications and products	Intentional addition								●					●			●	
Dicofol	ジコフール	115-32-2	Prohibited	All applications and products	Intentional addition								●					●			●	
r-1,c-2,t-3,c-4,t-5,t-6-hexachlorocyclohexane (α-hexachlorocyclohexane)		319-84-6	Prohibited	All applications and products	Intentional addition								●					●			●	
r-1,t-2,c-3,t-4,c-5,t-6-hexachlorocyclohexane (β-hexachlorocyclohexane)		319-85-7	Prohibited	All applications and products	Intentional addition								●					●			●	
Decachloropentacyclo [5.3.0.0 (2,6) .0 (3,9) .0 (4,8)] decan-5-one (Crodecon)		143-50-0	Prohibited	All applications and products	Intentional addition								●					●			●	
1,9,10,11,12-hexachloro-5-oxo-4,6-dioxo-5λ (4) -thiatricyclo [7.2.1.0 (2,8)] dodeca-		115-29-7	Prohibited	All applications and products	Intentional addition								●					●			●	
(5aR, 6R, 9S, 9aS) -6,7,8,9,10,10-hexachloro-1,5,5a, 6,9,9a-hexahydro-3H-6,9-methano- 3 λ (4) -benzodioxathiepin-3-one		959-98-8	Prohibited	All applications and products	Intentional addition								●					●			●	
(3R, 5aR, 6R, 9S, 9aS) -6,7,8,9,10,10-hexachloro-1,5,5a, 6,9,9a-hexahydro-3H-6,9- 4, 3 [lambda] (4) -benzodioxathiepin-3-one		33213-65-9	Prohibited	All applications and products	Intentional addition								●					●			●	
Tetrachloroethylene	テトラクロロエチレン	127-18-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000								●					●			●	
Bis(tributan-1-ylstannyl) but-2-enedioate		24291-45-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000								●					●			●	
Bis(tributan-1-ylstannyl) 2,3-dibromosuccinate		56323-17-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000								●					●			●	

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
1,5,9-Cyclododecatriene, (E,E,E)-		676-22-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,5,9-Cyclododecatriene, (1E,5E,9Z)-		706-31-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,5,9-Cyclododecatriene, (1E,5Z,9Z)-		2765-29-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,5,9-Cyclododecatriene, (Z,Z,Z)-		4736-48-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,5,9-Cyclododecatriene		4904-61-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
Cyclododecane	シクロドデカン	294-62-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,1-Bis(tert-butyl)-3,3,5-trimethylcyclohexane peroxide		6731-36-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
Tetraphenyltin	テトラフェニルチン	595-90-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
Benzene, 1,3,5-tribromo-2-(2,3-dibromo-2-methylpropoxy)-		36065-30-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
Phosphonothioic acid, phenyl-, O-(2,4-dichlorophenyl) O-ethyl ester		3792-59-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
Benzene, 1,3,5-tris(1,1-dimethylethyl)-		1460-02-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
4-Isopropenyl-1-methylcyclohex-1-ene dimer		57912-86-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
(R)-4-Isopropenyl-1-methylcyclohex-1-ene dimer		71911-41-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
2,4-Bis(4-methylcyclohexyl)-2-methylpentane		84304-87-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1-isopropyldecahydronaphthalene		1010-74-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
2-Isopropyldecahydronaphthalene		861642-00-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
2,6-di-tert-Butyl-4-phenylphenol	2,6-ジ-tert-ブチル-4-フェニルフェノール	2668-47-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,4-Diisopropyl-naphthalene		24157-79-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
2,6-Diisopropyl-naphthalene		24157-81-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,8-Diisopropyl-naphthalene		24192-58-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,5-Diisopropyl-naphthalene		27351-96-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
Naphthalene, diisopropyl-		38640-62-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
2,7-Diisopropyl-naphthalene		40458-98-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,6-Diisopropyl-naphthalene		51113-41-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,3-Diisopropyl-naphthalene		57122-16-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,2-Diisopropyl-naphthalene		94133-79-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
1,7-Diisopropyl-naphthalene		94133-80-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
2,3-Diisopropyl-naphthalene		94133-81-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							
Naphthalene, triisopropyl-		35860-37-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000										•							

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2,2'-Diethylbiphenyl		13049-35-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,3'-Diethylbiphenyl		13049-36-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,4'-Diethylbiphenyl		13049-37-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
3,3'-Diethylbiphenyl		13049-38-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
3,4'-Diethylbiphenyl		13049-39-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
4,4'-Diethylbiphenyl		13049-40-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Diethylbiphenyl	ジエチルビフェニル	28575-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Dibenzyltoluene	ジベンジルトルエン	26898-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Toluene, dibenzyl derivative		29589-57-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Dibenzylbenzene, ar-methyl derivative		53585-53-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,1'-Biphenyl, triethyl-		42343-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,1'-Biphenyl, 2,4,6-triethyl-		76804-33-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,1'-Biphenyl, 2,4',5-triethyl-		152463-74-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,4-Di-tert-butyl-6-[(2-nitrophenyl)diazanyl]phenol		52184-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Perfluoro(1,2-dimethylcyclohexane)		306-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Perfluoropentadecanoic acid	ペルフルオロペンタデカン酸	141074-63-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Perfluorohexadecanoic acid	ペルフルオロヘキサデカン酸	67905-19-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Perfluoroheptane	ペルフルオロヘプタン	335-57-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Perfluorooctane	ペルフルオロオクタナ	307-34-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,2,3,3,4,4,5-Heptafluoro-5-(perfluorobutyl)oxolane		335-36-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,2,3,3,4,4,5-Heptafluoro-4-(perfluorobutyl)oxolane		646-85-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Heptafluoro(perfluorobutyl)oxolane		40464-54-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
4-sec-Butyl-2,6-di-tert-butylphenol	4-sec-ブチル-2,6-ジ-tert-ブチルフェノール	17540-75-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,4-Bis(isopropylamino)-9,10-anthraquinone		14233-37-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tetraphosphorus		12185-10-3	Prohibited	All applications and products	Intentional addition																			
Schradan		152-16-9	Prohibited	All applications and products	Intentional addition																			
Diethyl p-nitrophenylthiophosphate		56-38-2	Prohibited	All applications and products	Intentional addition																			
Dimethyl ethylmercaptoethyl thiophosphate		8022-00-2	Prohibited	All applications and products	Intentional addition																			
Dimethyl phosphate ester 2-chloro-N,N-diethyl-3-hydroxycrotonamide		13171-21-6	Prohibited	All applications and products	Intentional addition																			

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Dimethyl-p-nitrophenylthiophosphate		298-00-0	Prohibited	All applications and products	Intentional addition												•					
Tetraethyl diphosphate		107-49-3	Prohibited	All applications and products	Intentional addition												•					
Fluoroacetic acid	フッ素酢酸	144-49-0	Prohibited	All applications and products	Intentional addition												•					
2-fluoroacetamide	フッ素酢酸アミド	640-19-7	Prohibited	All applications and products	Intentional addition												•					
BHC or HCH		608-73-1	Prohibited	All applications and products	Intentional addition													•				
beryllium compounds with the exception of aluminium beryllium silicates, and with those specified elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
perboric acid, sodium salt, tetrahydrate; [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm] [2]	過硼酸ナトリウム四水和物	37244-98-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
perboric acid (HBO(O2)), sodium salt, tetrahydrate sodium peroxoborate hexahydrate; [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm] [3]		10486-00-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
perboric acid, sodium salt, monohydrate; [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm] [2]		12040-72-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
perboric acid (HBO(O2)), sodium salt, monohydrate; sodium peroxoborate; [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm] [3]		10332-33-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
carbon monoxide		630-08-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•		•	
linuron (ISO); 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea	リンロン; 3-(3,4-ジクロロフェニル)-1-メトキシ-1-メチル尿素	330-55-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•		•	
sulfallate (ISO); 2-chloroallyl N,N-dimethyldithiocarbamate	スファレート; 2-クロロアリルN,N-ジメチルジチオカルバメート	95-06-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•		•	
dimethylcarbamoyl chloride	ジメチルカルバモイルクロライド	79-44-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•		•	
diazomethane	ジアゾメタン	334-88-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
mancozeb (ISO); manganese ethylenebis(dithiocarbamate) (polymeric) complex with zinc salt		8018-01-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•		•	
O-isobutyl-N-ethoxy carbonylthiocarbamate	O-イソブチル-N-エトキシカルボニルジチオカルバメート	103122-66-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
O-hexyl-N-ethoxycarbonylthiocarbamate		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
N,N-dimethylhydrazine	N,N-ジメチルヒドラジン	57-14-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•		•	
1,2-dimethylhydrazine	1,2-ジメチルヒドラジン	540-73-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•		•	
salts of hydrazine		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
hydrazobenzene; 1,2-diphenylhydrazine	1,2-ジフェニルヒドラジン	122-66-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•	•	•	
hydrazine bis(3-carboxy-4-hydroxybenzenesulfonate)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
etacelasil (ISO); 6-(2-chloroethyl)-6-(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane	エタセルシル; 6-(2-クロロエチル)-6-(2-メトキシエトキシ)-2,5,7,10-テトラオキサ-6-シラウンデカン	37894-46-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

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flusilazole (ISO); bis(4-fluorophenyl)(methyl)(1H-1,2,4-triazol-1-ylmethyl)silane	フルシラゾール；ビス(4-フルオロフェニル)(メチル)(1H-1,2,4-トリアゾール-1-イルメチル)シラン	85509-19-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
reaction mass of: 4-[[bis-(4-fluorophenyl)methylsilyl]methyl]-4H-1,2,4-triazole; 1-[[bis-(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
(4-ethoxyphenyl)(3-(4-fluoro-3-phenoxyphenyl)propyl)dimethylsilane	(4-エトキシフェニル){3-[(4-フルオロ-3-フェノキシフェニル)プロピル]}ジメチルシラン	105024-66-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
e-glass microfibres of representative composition; [Calcium-aluminium-silicate fibres with random orientation with the following representative composition (% given by weight): SiO2 50,0-56,0 %, Al2O3 13,0-16,0 %, B2O3 5,8-10,0 %, Na2O < 0,6 %, K2O < 0,4 %, CaO 15,0-24,0 %, MgO < 5,5 %, Fe2O3 < 0,5 %, F2 < 1,0 %. Process: typically produced by flame attenuation and rotary process. (Additional individual elements may be present at low levels; the process list does not preclude innovation).]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
silicon carbide fibres (with diameter < 3 μm, length > 5 μm and aspect ratio ≥ 3:1)		409-21-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
hexamethylphosphoric triamide; hexamethylphosphoramide	ヘキサメチルリン酸トリアミド	680-31-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl)butyrate	グルホシネートアモニウム；アモニウム2-アミノ-4-(ヒドロキシメチルホスフィニル)ブチレート	77182-82-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
reaction mass of: dimethyl (2-(hydroxymethylcarbonyl)ethyl)phosphonate; diethyl (2-(hydroxymethylcarbonyl)ethyl)phosphonate; methyl ethyl (2-(hydroxymethylcarbonyl)ethyl)phosphonate		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
indium phosphide	リン化インジウム	22398-80-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
dimethylsulfamoylchloride	ジメチルスルファモイルクロライド	13360-57-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
zinc chromates including zinc potassium chromate		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
trinickel disulphide; heazlewoodite [2]		12035-71-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
slimes and sludges, copper electrolytic refining, decopperised, nickel sulfate	銅電解精錬、脱泡化、硫酸ニッケルの粘着液、スラッジ	92129-57-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
slimes and sludges, copper electrolyte refining, decopperised	銅電解精錬、脱泡化の粘着液、スラッジ	94551-87-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
cobalt lithium nickel oxide		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
arsenic acid and its salts with the exception of those specified elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
potassium bromate	臭素酸カリウム	7758-01-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
tributyltin compounds, with the exception of those specified elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
lead compounds with the exception of those specified elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
lead alkyls		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
butane (containing ≥ 0,1 %butadiene (203-450-8)) [1]		106-97-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
isobutane (containing ≥ 0,1 % butadiene (203-450-8)) [2]		75-28-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
isoprene (stabilised); 2-methyl-1,3-butadiene		78-79-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
benzo[rs]t]pentaphene		189-55-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
dibenzo[b,def]chrysene; dibenzo[a,h]pyrene		189-64-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
dibenzo[def,p]chrysene; dibenzo[a,i]pyrene		191-30-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,2-dibromoethane	1,2-ジブロムエタン	106-93-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,2-dichloropropane; propylene dichloride	1,2-ジクロロプロパン; プロピレンジクロライド	78-87-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,2-dibromo-3-chloropropane	1,2-ジブロム-3-クロロプロパン	96-12-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
chloroprene (stabilised); 2-chlorobuta-1,3-diene (stabilised)		126-99-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
α-chlorotoluene; benzyl chloride	α-クロロトルエン; 塩化ベンジル	100-44-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
α,α,α-trichlorotoluene; benzotrichloride	α,α,α-トリクロロトルエン; ベンゾトリクロライド	98-07-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,3-dichloro-2-propanol	1,3-ジクロロ-2-プロパノール	96-23-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1,4-dichlorobut-2-ene	1,4-ジクロロブタ-2-エン	764-41-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2-bromopropane	2-ブロムプロパン	75-26-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
α, α,α,4-tetrachlorotoluene; p-chlorobenzotrichloride	α,α,α,4-テトラクロロトルエン; p-クロロベンゾトリクロライド	5216-25-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
tetrafluoroethylene		116-14-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
ethylene oxide; oxirane	エチレンオキシド; オキラン	75-21-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,2'-bioxirane; 1,2:3,4-diepoxybutane	2,2'-ビオキラン; 1,2:3,4-ジエポキシブタン	1464-53-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
tetrahydro-2-furylmethanol; tetrahydrofurfuryl alcohol	テトラヒドロ-2-フリルメタノール; テトラヒドロフリルアルコール	97-99-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,3-epoxypropan-1-ol; glycidol; oxiranemethanol	2,3-エポキシプロパン-1-オール; グリシドール; オキランメタノール	556-52-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
m-bis(2,3-epoxypropoxy)benzene; resorcinol diglycidyl ether		101-90-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
7-oxa-3-oxiranylbicyclo [4.1.0]heptane; 1,2-epoxy- 4-epoxyethylcyclohexane; 4- vinylcyclohexene diepoxide		106-87-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
chlormethyl methyl ether; chlorodimethyl ether	クロロメチルメチルエーテル; クロロジメチルエーテル	107-30-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
R-2,3-epoxy-1-propanol	R-2,3-エポキシ-1-プロパノール	57044-25-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
R-1-chloro-2,3-epoxypropane	R-1-クロロ-2,3-エポキシプロパン	51594-55-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2-(2-aminoethylamino)ethanol; (AEEA)	2-(2-アミノエチルアミノ)エタノール; (AEEA)	111-41-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,3-epoxypropyltrimethylammonium chloride ...%; glycidyl trimethylammonium chloride ...%	2,3-エポキシプロピルトリメチルアンモニウム塩化物 ...%; グリシドールトリメチルアンモニウム塩化物 ...%	3033-77-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride; [containing ≥ 0.1 % 4-chloroaniline (EC No 203-401-0)]		214353-17-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
ethanol, 2,2'-iminobis-, N-(C13-15-branched and linear alkyl) derivs.		97925-95-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
ipconazole (ISO); (1RS,2SR,5RS;1RS,2S-R,5SR)-2-(4-chloro-benzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-yl-methyl)cyclopentanol		125225-28-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
1,2-dihydroxybenzene; pyrocatechol		120-80-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
4-amino-3-fluorophenol	4-アミノ-3-フルオロフェノール	399-95-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
(E)-3-[1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol	(E)-3-[1-[4-[2-(ジメチルアミノ)エトキシ]フェニル]-2-フェニルブチ-1-エニル]フェノール	82413-20-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2-chloro-6-fluoro-phenol	2-クロロ-6-フルオロフェノール	2040-90-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
phenol, 2-dodecyl-, branched [2]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
phenol, 3-dodecyl-, branched [3]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
safrrole; 5-allyl-1,3-benzodioxole	サフロール; 5-アリル-1,3-ベンゾジオキソール	94-59-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
chlorophacinone (ISO); 2-[(4-chlorophenyl)(phenyl)acetyl]-1H-indene-1,3(2H)-dione	クロロファシノン; 2-[(4-クロロフェニル)(フェニル)アセチル]-1H-インドエン-1,3(2H)-ジオン	3691-35-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
3-propanolide; 1,3-propiolactone	3-プロピラクトン; 1,3-プロピラクトン	57-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
tetrahydrothiopyran-3-carboxaldehyde	テトラヒドロチオピラン-3-カルボアルデヒド	61571-06-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2-butyl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	2-ブチル-3-ヒドロキシ-5-チオシクロヘキサン-3-イル-シクロヘキサン-2-エン-1-オン	94723-86-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
cyclic 3-(1,2-ethanediylacetale)-estra-5(10),9(11)-diene-3,17-dione	環状3-(1,2-エタニドリアセタール)-エストラ-5(10),9(11)-ジオン-3,17-ジオン	5571-36-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
anthraquinone	アントラキノン	84-65-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
warfarin (ISO); 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-chromen-2-one [1]		81-81-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
(S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone [2]		5543-57-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
(R)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone [3]		5543-58-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
coumatetralyl (ISO); 4-hydroxy-3-(1,2,3,4-tetrahydro-1-naphthyl)coumarin	クマトラルイル; 4-ヒドロキシ-3-(1,2,3,4-テトラヒドロ-1-ナフチル)クマリン	5836-29-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2,3-epoxypropyl methacrylate; glycidyl methacrylate	2,3-エポキシプロピルメタクリレート;グリシジルメタクリレート	106-91-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
urethane (INN); ethyl carbamate		51-79-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin	ジフェナコム; 3-(3-ビフェニル-4-イル-1,2,3,4-テトラヒドロ-1-ナフチル)-4-ヒドロキシクマリン	56073-07-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
brodifacoum (ISO); 4-hydroxy-3-(3-(4'-bromo-4-biphenyl)-1,2,3,4-tetrahydro-1-naphthyl)coumarin	ブロディファコム; 4-ヒドロキシ-3-(3-(4'-ブロモ-4-ビフェニル)-1,2,3,4-テトラヒドロ-1-ナフチル)クマリン	56073-10-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
methyl acrylamidomethoxyacetate (containing ≥ 0,1 % acrylamid)		77402-03-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
2-ethylhexyl[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]thio]acetate	2-エチルヘキシル[[[3,5-ビス(1,1-ジメチルエチル)-4-ヒドロキシフェニル]メチル]チオ]アセテート	80387-97-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
methyl acrylamidoglycolate (containing ≥ 0,1 % acrylamide)		77402-05-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2-methoxypropyl acetate	2-メトキシプロピル アセテート	70657-70-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
fluzafop-butyl (ISO); butyl (RS)-2-[4-(5-trifluoromethyl-2-pyridyloxy)phenoxy]propionate	フルザフブチル; ブチル(RS)-2-[4-(5-トリフルオロメチル-2-ピリドキシ)フェノキシ]プロピオン酸	69806-50-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
vinclozolin (ISO); N-3,5-dichlorophenyl-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione	ビンクロゾリン; N-3,5-ジクロロフェニル-5-メチル-5-ビニル-1,3-オキサゾリジン-2,4-ジオン	50471-44-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
flocoumafen (ISO); reaction mass of: cis-4-hydroxy-3-(1,2,3,4-tetrahydro-3-(4-(4-trifluoromethylbenzyloxy)phenyl)-1-naphthyl)coumarin and trans-4-hydroxy-3-(1,2,3,4-tetrahydro-3-(4-(4-trifluoromethylbenzyloxy)phenyl)-1-naphthyl)coumarin	フロコウマフェン; シス-4-ヒドロキシ-3-(1,2,3,4-テトラヒドロ-3-(4-(4-トリフルオロメチルベンゾキシ)フェニル)-1-ナフチル)コウマリン および トランス-4-ヒドロキシ-3-(1,2,3,4-テトラヒドロ-3-(4-(4-トリフルオロメチルベンゾキシ)フェニル)-1-ナフチル)コウマリン	90035-08-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
oxiranemethanol, 4-methylbenzene-sulfonate, (S)-	オキランメタノール, 4-メチルベンゼンサルフェート, (S) -	70987-78-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
n-pentyl-isopentylphthalate [2]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
reaction mass of: disodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-hydroxy-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate; trisodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-oxido-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
ethyl 1-(2,4-dichlorophenyl)-5-(trichloromethyl)-1H-1,2,4-triazole-3-carboxylate	エチル 1-(2,4-ジクロロフェニル)-5-(トリクロロメチル)-1H-1,2,4-トリアゾール-3-カルボキシレート	103112-35-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
4-tert-butylbenzoic acid	4-tert-ブチル安息香酸	98-73-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
bromadiolone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H-chromen-2-one	ブロムディオロン; 3-[3-(4'-ブロムビフェニル-4-イル)-3-ヒドロキシ-1-フェニルプロピル]-4-ヒドロキシ-2H-クロメン-2-オン	28772-56-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
difethialone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydronaphthalen-1-yl]-4-hydroxy-2H-1-benzothiopyran-2-one	ジフェチアロン; 3-[3-(4'-ブロムビフェニル-4-イル)-1,2,3,4-テトラヒドロナフタレン-1-イル]-4-ヒドロキシ-2H-1-ベンゾチオピラン-2-オン	104653-34-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
spirodiclofen (ISO); 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 2,2-dimethylbutyrate		148477-71-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
diisooctyl phthalate		27554-26-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2-methoxyethyl acrylate		3121-61-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
3,7-dimethylocta-2,6-dienitrile	3,7-ジメチルオクタ-2,6-ジエンニトリル	5146-66-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2-nitropropane	2-ニトロプロパン	79-46-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
dinitrotoluene [2]		25321-14-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
dinocap (ISO); (RS)-2,6-dinitro-4-octylphenyl crotonates and (RS)-2,4-dinitro-6-octylphenyl crotonates in which "octyl" is a reaction mass of 1-methylheptyl, 1-ethylhexyl and 1-propylpentyl groups	ジノカプ; 4,6(又は2,6)-ジニトロ-2(又は4)-メチルヘptyル, 1-エチルヘキシル, 1-プロピルペンチル基	39300-45-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
binapacryl (ISO); 2-sec-butyl-4,6-dinitrophenyl-3-methylcrotonate	ビンパクリル; 2-sec-ブチル-4,6-ジニトロフェニル-3-メチルクロトネート	485-31-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
salts and esters of dinoseb, with the exception of those specified elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
dinoterb (ISO); 2-tert-butyl-4,6-dinitrophenol	ジノテール®; 2-tert-ブチル-4,6-ジニトロフェノール	1420-07-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
salts and esters of dinoterb		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
5-nitroacenaphthene	5-ニトロアセナフテン	602-87-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2-nitronaphthalene	2-ニトロナフthalen	581-89-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
nitrofen (ISO); 2,4-dichlorophenyl 4-nitrophenyl ether		1836-75-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2-nitroanisole	2-ニトロアニソール	91-23-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2,6-dinitrotoluene	2,6-ジニトロトルエン	606-20-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2,3-dinitrotoluene	2,3-ジニトロトルエン	602-01-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
3,4-dinitrotoluene	3,4-ジニトロトルエン	610-39-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
3,5-dinitrotoluene	3,5-ジニトロトルエン	618-85-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
hydrazine-trinitromethane		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2,5-dinitrotoluene	2,5-ジニトロトルエン	619-15-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2-nitrotoluene	2-ニトロトルエン	88-72-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
azobenzene	アゾベンゼン	103-33-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
methyl-ONN-azoxymethyl acetate; methyl azoxy methyl acetate	メチル-N-アゾキシメチルアセテート; メチルアゾキシメチルアセテート	592-62-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Benzidine based azo dyes; 4,4'-diarylazobiphenyl dyes, with the exception of those specified elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
o-dianisidine based azo dyes; 4,4'-diaryloxy-3,3'-dimethoxybiphenyl dyes with the exception of those mentioned elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
o-tolidine based dyes; 4,4'-diaryloxy-3,3'-dimethylbiphenyl dyes, with the exception of those mentioned elsewhere in CLP Annex		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
6-hydroxy-1-(3-isopropoxypropyl)-4-methyl-2-oxo-5-[4-(phenylazo)phenylazo]-1,2-dihydro-3-pyridinecarbonitrile	6-ヒドロキシ-1-(3-イソプロポキシプロピル)-4-メチル-2-オキソ-5-[4-(フェニルアゾ)フェニルアゾ]-1,2-ジヒドロ-3-ピリジン炭素ニトリール	85136-74-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
(6-(4-hydroxy-3-(2-methoxyphenylazo)-2-sulfonato-7-naphthylamino)-1,3,5-triazin-2,4-diyl)bis[(amino-1-methylethyl)ammonium] formate	(6-(4-ヒドロキシ-3-(2-メトキシフェニルアゾ)-2-スルホナート-7-ナフthylアミノ)-1,3,5-トリアジン-2,4-ジイル)ビス[(アミノ-1-メチルエチル)アモニウム] 酢酸塩	108225-03-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
trisodium [4'-(8-acetylamino-3,6-disulfonato-2-naphthylazo)-4'-(6-benzoylamino-3-sulfonato-2-naphthylazo)-biphenyl-1,3',3'',1''-tetraolato-O,O',O'',O''']copper(II)	[4'-(8-アセチルアミノ-3,6-ジスルホナート-2-ナフthylアゾ)-4'-(6-ベンゾイルアミノ-3-スルホナート-2-ナフthylアゾ)-ビフェニル-1,3',3'',1''-テトラオレート-O,O',O'',O''']銅(II)	164058-22-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
(methylenebis(4,1-phenylenazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diy)))·1,1'-dipyridinium dichloride dihydrochloride	(メチレンビス(4,1-フェニレンアゾ(1-(3-(ジメチルアミノ)プロピル)-1,2-ジヒドロ-6-ヒドロキシ-4-メチル-2-オキソピリジン-5,3-ジイル))) · 1,1'-ジピリジニウムジクロライドジヒドロクロライド	118658-99-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
2-[2-hydroxy-3-(2-chlorophenyl)carbamoyl-1-naphthylazo]-7-[2-hydroxy-3-(3-methylphenyl)carbamoyl-1-naphthylazo]fluoren-9-one	2-[2-ヒドロキシ-3-(2-クロロフェニル)カルバモイル-1-ナフチルアゾ]-7-[2-ヒドロキシ-3-(3-メチルフェニル)カルバモイル-1-ナフチルアゾ]フルオレン-9-オン	151798-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
azafenidin (ISO); 2-(2,4-dichloro-5-prop-2-ynyloxyphenyl)-5,6,7,8-tetrahydro-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one	アザフェニジン; 2-(2,4-ジクロロ-5-プロパ-2-インオキシフェニル)-5,6,7,8-テトラヒドロ-1,2,4-トリアゾロ[4,3-a]ピリジン-3(2H)-オン	68049-83-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
phenylhydrazine [1]		100-63-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
phenylhydrazinium chloride [2]		59-88-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
phenylhydrazine hydrochloride [3]		27140-08-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
phenylhydrazinium sulphate (2:1) [4]		52033-74-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
salts of 3,3'-dimethoxybenzidine; salts of o-dianisidine		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
N,N'-diacetylbenzidine	N,N'-ジアセチルベンジジン	613-35-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
salts of 3,3'-dichlorobenzidine; salts of 3,3'-dichlorobiphenyl-4,4'-ylenediamine		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
salts of biphenyl-4-ylamine; salts of xenylamine; salts of 4-aminobiphenyl		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
salts of 2,2'-dichloro-4,4'-methylenedianiline; salts of 4,4'-methylenebis(2-chloroaniline)		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
salts of 4,4'-bi-o-toluidine; salts of 3,3'-dimethylbenzidine; salts of o-toluidine [2]		64969-36-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
salts of 4,4'-bi-o-toluidine; salts of 3,3'-dimethylbenzidine; salts of o-toluidine [3]		74753-18-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
1-methyl-3-nitro-1-nitrosoguanidine	1-メチル-3-ニトロ-1-ニトロソグアニジン	70-25-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
toluene-2,4-diammonium sulphate; 4-methyl-m-phenylenediamine sulfate	トルエン-2,4-ジアミン硫酸; 4-メチル-m-フェニレンジアミン硫酸	65321-67-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
methyl-phenylene diamine; diaminotoluene; [technical product – reaction mass of 4-methyl-m-phenylene diamine (EC No 202-453-1) and 2-methyl-m-phenylene diamine (EC No 212-513-9)]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
2,4,5-trimethylaniline hydrochloride [2]		21436-97-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
biphenyl-3,3',4,4'-tetrayltetraamine; diaminobenzidine	ビフェニル-3,3',4,4'-テトライルテトラアミン; ジアミノベンジジン	91-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
(2-chloroethyl)(3-hydroxypropyl)ammonium chloride	(2-クロロエチル)(3-ヒドロキシプロピル)アモニウム塩化物	40722-80-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
chloro-N,N-dimethylformiminium chloride	クロロ-N,N-ジメチルホルミミウム塩化物	3724-43-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
7-methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one; [containing ≥ 0.5 % formamide (EC No 200-842-0)]	7-メトキシ-6-(3-モルホリン-4-イル-プロパキシ)-3H-キノザリン-4-オン; [0.5%ホルミド含有]	199327-61-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
3-amino-9-ethyl carbazole; 9-ethylcarbazol-3-ylamine	3-アミノ-9-エチルカルバゾール-9-エチルカルバゾール-3-イルアミン	132-32-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
triflumizole (ISO); (1E)-N-[4-chloro-2-(trifluoromethyl)phenyl]-1-(1H-imidazol-1-yl)-2-propoxyethanimine	トリフルミゾール; (1E)-N-[4-クロロ-2-(トリフルオロメチル)フェニル]-1-(1H-イミダゾール-1-イル)-2-プロパキシエタニミン	68694-11-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis[5-methyloxazolidine]; [formaldehyde released from oxazolidin]; [MBO]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
reaction products of paraformaldehyde with 2-hydroxypropylamine (ratio 1:1); [formaldehyde released from α,α,α-trimethyl-1,3,5-triazine-1,3,5-(2H,4H,6H)-triethanol]; [HPT]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
methylhydrazine	メチルヒドラジン	60-34-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
ethyleneimine; aziridine	エチレンイミン; アズリジン	151-56-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
tridemorph (ISO); 2,6-dimethyl-4-tridecylmorpholine	トリデモルフ; 2,6-ジメチル-4-トリデシルモルホリン	24602-86-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
2-methylaziridine; propyleneimine	2-メチルアズリジン; プロピレンイミン	75-55-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
captafol (ISO); 1,2,3,6-tetrahydro-N-(1,1,2,2-tetrachloroethylthio)phthalimide	キャプタフォル; 1,2,3,6-テトラヒドロ-N-(1,1,2,2-テトラクロロエチルチオ)フタルイミド	2425-06-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
benomyl (ISO); methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate	ベンミル; メチル1-(ブチルカルバモイル)ベンズイミダゾール-2-イルカルバメート	17804-35-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
carbadox (INN); methyl 3-(quinoxalin-2-ylmethylene)carbazate 1,4-dioxide; 2-(methoxycarbonylhydrazonomethyl)quinoxaline 1,4-dioxide	カルバダックス; メチル3-(キノキサリン-2-イルメチレン)カルバザート 1,4-ジオキサイド; 2-(メトキシカルボニルヒドrazonomethyl)キノキサリン-1,4-ジオキサイド	6804-07-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
dimethomorph (ISO); (E,Z)-4-(3-(4-chlorophenyl)-3-(4-dimethoxyphenyl)acryloyl)morpholine		110488-70-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
1,2,4-triazole		288-88-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
cycloheximide (ISO); 4-{{(2R)-2-[[[1S,3S,5S]-3,5-dimethyl-2-oxocyclohexyl]-2-hydroxyethyl]}piperidine-2,6-dione	シクロヘキミド; 4-{{(2R)-2-[[[1S,3S,5S]-3,5-ジメチル-2-オキソシクロヘキシル]-2-ヒドロキシエチル]}ピペリジン-2,6-ジオン	66-81-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
epoxiconazole (ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane	エポキシコナゾール; (2RS,3SR)-3-(2-クロロフェニル)-2-(4-フルオロフェニル)-[(1H-1,2,4-トリアゾール-1-イル)メチル]オキラン	133855-98-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
reaction mass of: 1,3,5-tris(3-aminomethylphenyl)-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione; reaction mass of oligomers of 3,5-bis(3-aminomethylphenyl)-1-poly[3,5-bis(3-aminomethylphenyl)-2,4,6-trioxo-1,3,5-(1H,3H,5H)-triazin-1-yl]-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
quinoline	キノリン	91-22-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
ketoconazole; 1-[4-[[[(2SR,4RS)-2-(2,4-dichlorophenyl)-2-(imidazol-1-ylmethyl)-1,3-dioxolan-4-yl)methoxy]phenyl]piperazin-1-yl]ethanone	ケトコナゾール; 1-[4-[4-[[[(2SR,4RS)-2-(2,4-ジクロロフェニル)-2-(イミダゾール-1-イルメチル)-1,3-ジオキサラン-4-イル]メトキシ]フェニル]ピペラジン-1-イル]エタンオン	65277-42-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
potassium 1-methyl-3-morpholinocarbonyl-4-[3-(1-methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-ylidene)-1-propenyl]pyrazole-5-olate; [containing ≥ 0.5 % N,N-dimethylformamide (EC No 200-679-5)]	1-メチル-3-モルホリノカルボニル-4-[3-(1-メチル-3-モルホリノカルボニル-5-オキソ-2-ピラゾリン-4-イルイデン)-1-プロペン-1-イル]ピラゾール-5-オレート; [0.5%N,N-ジメチルホルムアミド含有]	183196-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
imidazole	イミダゾール	288-32-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
triadimenol (ISO); (1RS,2RS;1RS,2SR)-1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol; α-tert-butyl-β-(4-chlorophenoxy)-1H-1,2,4-triazole-1-ethanol	トリアディメノール; (1RS,2RS; 1RS,2SR)-1-(4-クロロフェニル)-3,3-ジメチル-1-(1H-1,2,4-トリアゾール-1-イル)ブタン-2-オール; α-tert-ブチル-β-(4-クロロフェニル)-1H-1,2,4-トリアゾール-1-エタノール	55219-65-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

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quinolin-8-ol; 8-hydroxyquinoline	キノリン-8-オール; 8-ヒドロキキノリン	148-24-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
halosulfuron-methyl (ISO); methyl 3-chloro-5-[[[4,6- dimethoxypyrimidin-2- yl]carbamoyl]sulfamoyl]-1-methyl-1H- pyrazole-4-carboxylate		100784-20-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
flurochloridone (ISO); 3-chloro-4-(chloro- methyl)-1-[3-(trifluor- omethyl)phenyl]pyrrolidin-2-one		61213-25-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
3-methylpyrazole		1453-58-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
colchicine	コルヒチン	64-86-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime		96-29-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
thioacetamide	チオアセチアミド	62-55-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
N-methylformamide	N-メチルホルムアミド	123-39-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
reaction mass of: N-[3-hydroxy-2-(2- methylacryloylaminoethoxy)propoxymet hyl]-2-methylacrylamide; N-[2,3-bis-(2- methylacryloylaminoethoxy)propoxymet hyl]-2-methylacrylamide; methacrylamide; 2-methyl-N-(2- methylacryloylaminoethoxymethyl)- acrylamide; N-(2,3- dihydroxypropoxymethyl)-2- methylacrylamide		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
N-[6,9-dihydro-9-[[2-hydroxy-1- (hydroxymethyl)ethoxy]methyl]-6-oxo-1H- purin-2-yl]acetamide	N-[6,9-ジヒドロ-9-[[2-ヒドロキシ-1-(ヒドロキシメチル)エトキシ]メチル]-6-オキソ-1H-プリン-2-イル]アセチアミド	84245-12-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
N,N-(dimethylamino)thioacetamide hydrochloride	N,N-(ジメチルアミノ)チオアセチアミド塩酸塩	27366-72-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
carbetamide (ISO); (R)-1-(ethylcarbamoyl)ethyl carbanilate; (2R)-1-(ethylamino)-1-oxopropan-2-yl phenylcarbamate	カルベチアミド; (R)-1-(エチルカルバモイル)エチルカルバニレート; (2R)-1-(エチルアミノ)-1-オキソプロパン-2-イルフェニルカルバメート	16118-49-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
bis(α,α-dimethylbenzyl) peroxide		80-43-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal tar), benzole fraction; Light Oil; [A complex combination of hydrocarbons obtained by the distillation of coal tar. It consists of hydrocarbons having carbon numbers primarily in the range of C4 to C10 and distilling in the approximate range of 80 °C to 160 °C (175 °F to 320 ° F).]		84650-02-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Tar oils, brown-coal; Light Oil; [The distillate from lignite tar boiling in the range of approximately 80°C to 250°C (176°F to 482°F). Composed primarily of aliphatic and aromatic hydrocarbons and monobasic phenols.]		94114-40-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Benzol forerunnings (coal); Light Oil Redistillate, low boiling; [The distillate from coke oven light oil having an approximate distillation range below 100°C (212°F). Composed primarily of C4 to C6 aliphatic hydrocarbons.]		65996-88-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal tar), benzole fraction, BTX- rich; Light Oil Redistillate, low boiling; [A residue from the distillation of crude benzole to remove benzole fronts. Composed primarily of benzene, toluene and xylenes boiling in the range of approximately 75°C to 200°C (167°F to 392°F).]		101896-26-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Aromatic hydrocarbons, C6-10, C8-rich; Light Oil Redistillate, low boiling		90989-41-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Solvent naphtha (coal), light; Light Oil Redistillate, low boiling		85536-17-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Solvent naphtha (coal), xylene-styrene cut; Light Oil Redistillate, intermediate boiling		85536-20-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Solvent naphtha (coal), coumarone-styrene contg.; Light Oil Redistillate, intermediate boiling		85536-19-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Naphtha (coal), distn. residues; Light Oil Redistillate, high boiling; [The residue remaining from the distillation of recovered naphtha. Composed primarily of naphthalene and condensation products of indene and styrene.]		90641-12-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Aromatic hydrocarbons, C8; Light Oil Redistillate, high boiling		90989-38-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Aromatic hydrocarbons, C8-9, hydrocarbon resin polymn. by-product; Light Oil Redistillate, high boiling; [A complex combination of hydrocarbons obtained from the evaporation of solvent under vacuum from polymerized hydrocarbon resin. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C9 and boiling in the range of approximately 120°C to 215°C (248°F to 419°F).]		91995-20-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Aromatic hydrocarbons, C9-12, benzene distn.; Light Oil Redistillate, high boiling		92062-36-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Extract residues (coal), benzole fraction alk., acid ext.; Light Oil Extract Residues, low boiling; [The redistillate from the distillate, freed of tar acids and tar bases, from bituminous coal high temperature tar boiling in the approximate range of 90°C to 160°C (194°F to 320°F). It consists predominantly of benzene, toluene and xylenes.]		91995-61-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Extract residues (coal tar), benzole fraction alk., acid ext.; Light Oil Extract Residues, low boiling; [A complex combination of hydrocarbons obtained by the redistillation of the distillate of high temperature coal tar (tar acid and tar base free). It consists predominantly of unsubstituted and substituted mononuclear aromatic hydrocarbons boiling in the range of 85°C to 195°C (185°F to 383°F).]		101316-63-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Extract residues (coal), benzole fraction acid; Light Oil Extract Residues, low boiling; [An acid sludge by-product of the sulfuric acid refining of crude high temperature coal. Composed primarily of sulfuric acid and organic compounds.]		93821-38-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Extract residues (coal), light oil alk., distn. overheads; Light Oil Extract Residues, low boiling; [The first fraction from the distillation of aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oil boiling substantially below 145°C (293°F). Composed primarily of C7 and C8 aliphatic and aromatic hydrocarbons.]		90641-02-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Extract residues (coal), light oil alk., acid ext., indene fraction; Light Oil Extract Residues, intermediate boiling		101316-62-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			

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Extract residues (coal), light oil alk., indene naphtha fraction; Light Oil Extract Residues, high boiling; [The distillate from aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oils, having an approximate boiling range of 155°C to 180°C (311°F to 356°F). Composed primarily of indene, indan and trimethylbenzenes.]		90641-03-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Solvent naphtha (coal); Light Oil Extract Residues, high boiling; [The distillate from either high temperature coal tar, coke oven light oil, or coal tar oil alkaline extract residue having an approximate distillation range of 130°C to 210°C (266°F to 410°F). Composed primarily of indene and other polycyclic ring systems containing a single aromatic ring. May contain phenolic compounds and aromatic nitrogen bases.]		65996-79-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (coal tar), light oils, neutral fraction; Light Oil Extract Residues, high boiling; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of alkyl-substituted one ring aromatic hydrocarbons boiling in the range of approximately 135°C to 210°C (275°F to 410°F). May also include unsaturated hydrocarbons such as indene and coumarone.]		101794-90-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (coal tar), light oils, acid exts.; Light Oil Extract Residues, high boiling; [This oil is a complex reaction mass of aromatic hydrocarbons, primarily indene, naphthalene, coumarone, phenol, and o-, m- and p-cresol and boiling in the range of 140°C to 215°C (284°F to 419°F).]		90640-87-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (coal tar), light oils; Carbolic Oil; [A complex combination of hydrocarbons obtained by distillation of coal tar. It consists of aromatic and other hydrocarbons, phenolic compounds and aromatic nitrogen compounds and distills at the approximate range of 150°C to 210°C (302°F to 410°F).]		84650-03-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar oils, coal; Carbolic Oil; [The distillate from high temperature coal tar having an approximate distillation range of 130°C to 250°C (266°F to 410°F). Composed primarily of naphthalene, alkylnaphthalenes, phenolic compounds, and aromatic nitrogen bases.]		65996-82-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extract residues (coal), light oil alk., acid ext.; Carbolic Oil Extract Residue; [The oil resulting from the acid washing of alkali-washed carbolic oil to remove the minor amounts of basic compounds (tar bases). Composed primarily of indene, indan and alkylbenzenes.]		90641-01-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extract residues (coal), tar oil alk.; Carbolic Oil Extract Residue; [The residue obtained from coal tar oil by an alkaline wash such as aqueous sodium hydroxide after the removal of crude coal tar acids. Composed primarily of naphthalenes and aromatic nitrogen bases.]		65996-87-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extract oils (coal), light oil; Acid Extract; [The aqueous extract produced by an acidic wash of alkali-washed carbolic oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]		90640-99-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Pyridine, alkyl derivs.; Crude Tar Bases; [The complex combination of polyalkylated pyridines derived from coal tar distillation or as high-boiling distillates approximately above 150°C (302°F) from the reaction of ammonia with acetaldehyde, formaldehyde or paraformaldehyde.]		68391-11-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			



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Tar bases, coal, picoline fraction; Distillate Bases; [Pyridine bases boiling in the range of approximately 125°C to 160°C (257°F to 320°F) obtained by distillation of neutralized acid extract of the base-containing tar fraction obtained by the distillation of bituminous coal tars. Composed chiefly of lutidines and picolines.]		92062-33-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Tar bases, coal, lutidine fraction; Distillate Bases		91082-52-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extract oils (coal), tar base, collidine fraction; Distillate Bases; [The extract produced by the acidic extraction of bases from crude coal tar aromatic oils, neutralization, and distillation of the bases. Composed primarily of collidines, aniline, toluidines, lutidines, xyloidines.]		68937-63-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Tar bases, coal, collidine fraction; Distillate Bases; [The distillation fraction boiling in the range of approximately 181 °C to 186 °C (356 °F to 367 °F) from the crude bases obtained from the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of bituminous coal tar. It contains chiefly aniline and collidines.]		92062-28-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Tar bases, coal, aniline fraction; Distillate Bases; [The distillation fraction boiling in the range of approximately 180 °C to 200 °C (356 °F to 392 °F) from the crude bases obtained by dephenolating and debasing the carbolated oil from the distillation of coal tar. It contains chiefly aniline, collidines, lutidines and toluidines.]		92062-27-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Tar bases, coal, toluidine fraction; Distillate Bases		91082-53-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (petroleum), alkene-alkyne manuf. pyrolysis oil, mixed with high-temp. coal tar, indene fraction; Redistillates; [A complex combination of hydrocarbons obtained as a redistillate from the fractional distillation of bituminous coal high temperature tar and residual oils that are obtained by the pyrolytic production of alkenes and alkynes from petroleum products or natural gas. It consists predominantly of indene and boils in a range of approximately 160°C to 190°C (320°F to 374°F).]		91995-31-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates; [The redistillate obtained from the fractional distillation of bituminous coal high temperature tar and pyrolysis residual oils and boiling in the range of approximately 190°C to 270°C (374°F to 518°F). Composed primarily of substituted dinuclear aromatics.]		91995-35-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oil, redistillate; Redistillates; [The redistillate from the fractional distillation of dephenolated and debased methylnaphthalene oil obtained from bituminous coal high temperature tar and pyrolysis residual oils boiling in the approximate range of 220°C to 230°C (428°F to 446°F). It consists predominantly of unsubstituted and substituted dinuclear aromatic hydrocarbons.]		91995-66-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates; [A neutral oil obtained by debasing and dephenolating the oil obtained from the distillation of high temperature tar and pyrolysis residual oils which has a boiling range of 225°C to 255°C (437°F to 491°F). Composed primarily of substituted dinuclear aromatic hydrocarbons.]		122070-79-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

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Extract oils (coal), coal tar residual pyrolysis oils, naphthalene oil, distn. residues; Redistillates; [Residue from the distillation of dephenolated and debased methylnaphthalene oil (from bituminous coal tar and pyrolysis residual oils) with a boiling range of 240°C to 260°C (464°F to 500°F). Composed primarily of substituted dinuclear aromatic and heterocyclic hydrocarbons.]		122070-80-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Absorption oils, bicyclo arom. and heterocyclic hydrocarbon fraction; Wash Oil Redistillate; [A complex combination of hydrocarbons obtained as a redistillate from the distillation of wash oil. It consists predominantly of 2-ringed aromatic and heterocyclic hydrocarbons boiling in the range of approximately 260 °C to 290 °C (500 °F to 554 °F).]		101316-45-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), upper, fluorene-rich; Wash Oil Redistillate; [A complex combination of hydrocarbons obtained by the crystallization of tar oil. It consists of aromatic and polycyclic hydrocarbons primarily fluorene and some acenaphthene.]		84989-11-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Creosote oil, acenaphthene fraction, acenaphthene-free; Wash Oil Redistillate; [The oil remaining after removal by a crystallization process of acenaphthene from acenaphthene oil from coal tar. Composed primarily of naphthalene and alkyl naphthalenes.]		90640-85-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), heavy oils; Heavy Anthracene Oil; [Distillate from the fractional distillation of coal tar of bituminous coal, with boiling range of 240 °C to 400 °C (464 °F to 752 °F). Composed primarily of tri- and polynuclear hydrocarbons and heterocyclic compounds.]		90640-86-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oil, acid ext.; Anthracene Oil Extract Residue; [A complex combination of hydrocarbons from the base-freed fraction obtained from the distillation of coal tar and boiling in the range of approximately 325 °C to 365 °C (617 °F to 689 °F). It contains predominantly anthracene and phenanthrene and their alkyl derivatives.]		91995-14-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar); Heavy Anthracene Oil; [The distillate from coal tar having an approximate distillation range of 100 °C to 450 °C (212 °F to 842 °F). Composed primarily of two to four membered condensed ring aromatic hydrocarbons, phenolic compounds, and aromatic nitrogen bases.]		65996-92-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), pitch, heavy oils; Heavy Anthracene Oil; [The distillate from the distillation of the pitch obtained from bituminous high temperature tar. Composed primarily of tri- and polynuclear aromatic hydrocarbons and boiling in the range of approximately 300 °C to 470 °C (572 °F to 878 °F). The product may also contain heteroatoms.]		91995-51-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), pitch; Heavy Anthracene Oil; [The oil obtained from condensation of the vapors from the heat treatment of pitch. Composed primarily of two- to four-ring aromatic compounds boiling in the range of 200 °C to greater than 400 °C (392 °F to greater than 752 °F).]		101316-49-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			



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Tar, coal, high-temp., residues; Coal Tar Solids Residue; [Solids formed during the coking of bituminous coal to produce crude bituminous coal high temperature tar. Composed primarily of coke and coal particles, highly aromatized compounds and mineral substances.]		100684-51-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar, coal, high-temp., high-solids; Coal Tar Solids Residue; [The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292 °F)) destructive distillation of coal. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons with a high solid content of coal-type materials.]		68990-61-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Waste solids, coal-tar pitch coking; Coal Tar Solids Residue; [The combination of wastes formed by the coking of bituminous coal tar pitch. It consists predominantly of carbon.]		92062-34-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extract residues (coal), brown; Coal Tar Extract; [The residue from extraction of dried coal.]		91697-23-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Paraffin waxes (coal), brown-coal-high-temp. tar; Coal Tar Extract; [A complex combination of hydrocarbons obtained from lignite carbonization tar by solvent crystallisation (solvent deoiling), by sweating or an adducting process. It consists predominantly of straight and branched chain saturated hydrocarbons having carbon numbers predominantly greater than C12.]		92045-71-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Paraffin waxes (coal), brown-coal-high-temp. tar, hydrotreated; Coal Tar Extract; [A complex combination of hydrocarbons obtained from lignite carbonization tar by solvent crystallisation (solvent deoiling), by sweating or an adducting process treated with hydrogen in the presence of a catalyst. It consists predominantly of straight and branched chain saturated hydrocarbons having carbon numbers predominantly greater than C12.]		92045-72-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Paraffin waxes (coal), brown-coal high-temp tar, silicic acid-treated; Coal Tar Extract; [A complex combination of hydrocarbons obtained by the treatment of lignite carbonization tar with silicic acid for removal of trace constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]		97926-78-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar, coal, low-temp., distn. residues; Tar Oil, intermediate boiling; [Residues from fractional distillation of low temperature coal tar to remove oils that boil in a range up to approximately 300 °C (572 °F). Composed primarily of aromatic compounds.]		101316-85-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Pitch, coal tar, low-temp; Pitch Residue; [A complex black solid or semi-solid obtained from the distillation of a low temperature coal tar. It has a softening point within the approximate range of 40 °C to 180 °C (104 °F to 356 °F). Composed primarily of a complex mixture of hydrocarbons.]		90669-57-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Pitch, coal tar, low-temp., oxidized; Pitch Residue, oxidised; [The product obtained by air-blowing, at elevated temperature, low-temperature coal tar pitch. It has a softening-point within the approximate range of 70 °C to 180 °C (158 °F to 356 °F). Composed primarily of a complex mixture of hydrocarbons.]		90669-59-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

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Pitch, coal tar, low-temp., heat-treated; Pitch Residue, oxidised; Pitch Residue, heat-treated; [A complex black solid obtained by the heat treatment of low temperature coal tar pitch. It has a softening point within the approximate range of 50 °C to 140 °C (122 °F to 284 °F). Composed primarily of a complex mixture of aromatic compounds.]		90669-58-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal-petroleum), condensed-ring arom; Distillates; [The distillate from a mixture of coal and tar and aromatic petroleum streams having an approximate distillation range of 220 °C to 450 °C (428 °F to 842 °F). Composed primarily of 3- to 4-membered condensed ring aromatic hydrocarbons.]		68188-48-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Aromatic hydrocarbons, C20-28, polycyclic, mixed coal-tar pitch-polyethylene-polypropylene pyrolysis-derived; Pyrolysis Products; [A complex combination hydrocarbons obtained from mixed coal tar pitch-polyethylene-polypropylene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C28 and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.]		101794-74-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Aromatic hydrocarbons, C20-28, polycyclic, mixed coal-tar pitch-polyethylene pyrolysis-derived; Pyrolysis Products; [A complex combination of hydrocarbons obtained from mixed coal tar pitch-polyethylene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C28 and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.]		101794-75-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Aromatic hydrocarbons, C20-28, polycyclic, mixed coal-tar pitch-polystyrene pyrolysis-derived; Pyrolysis Products; [A complex combination of hydrocarbons obtained from mixed coal tar pitch-polystyrene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C28 and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.]		101794-76-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Pitch, coal tar-petroleum; Pitch Residues; [The residue from the distillation of a mixture of coal tar and aromatic petroleum streams. A solid with a softening point from 40 °C to 180 °C (140 °F to 356 °F). Composed primarily of a complex combination of three or more membered condensed ring aromatic hydrocarbons.]		68187-57-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Phenanthrene, distn. residues; Heavy Anthracene Oil Redistillate; [Residue from the distillation of crude phenanthrene boiling in the approximate range of 340 °C to 420 °C (644 °F to 788 °F). It consists predominantly of phenanthrene, anthracene and carbazole.]		122070-78-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), upper, fluorene-free; Wash Oil Redistillate; [A complex combination of hydrocarbons obtained by the crystallization of tar oil. It consists of aromatic polycyclic hydrocarbons, primarily diphenyl, dibenzofuran and acenaphthene.]		84989-10-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residues (coal tar), creosote oil distn.; Wash Oil Redistillate; [The residue from the fractional distillation of wash oil boiling in the approximate range of 270°C to 330°C (518°F to 626°F). It consists predominantly of dinuclear aromatic and heterocyclic hydrocarbons.]		92061-93-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Tar, coal; Coal tar; [The by-product from the destructive distillation of coal. Almost black semisolid. A complex combination of aromatic hydro-carbons, phenolic compounds, nitrogen bases and thiophene.]		8007-45-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Tar, coal, high-temp.; Coal tar; [The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons. May contain minor amounts of phenolic compounds and aromatic nitrogen bases.]		65996-89-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Tar, coal, low-temp.; Coal oil; [The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in low temperature (less than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of condensed ring aromatic hydrocarbons, phenolic compounds, aromatic nitrogen bases, and their alkyl derivatives.]		65996-90-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal), coke-oven light oil, naphthalene cut; Naphthalene Oil; [The complex combination of hydrocarbons obtained from prefractionation (continuous distillation) of coke oven light oil. It consists predominantly of naphthalene, coumarone and indene and boils above 148°C (298°F).]		85029-51-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal tar), naphthalene oils, naphthalene-low; Naphthalene Oil Redistillate; [A complex combination of hydrocarbons obtained by crystallization of naphthalene oil. Composed primarily of naphthalene, alkyl naphthalenes and phenolic compounds.]		84989-09-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal tar), naphthalene oil crstn. mother liquor; Naphthalene Oil Redistillate; [A complex combination of organic compounds obtained as a filtrate from the crystallization of the naphthalene fraction from coal tar and boiling in the range of approximately 200°C to 230°C (392°F to 446°F). Contains chiefly naphthalene, thionaphthene and alkyl naphthalenes.]		91995-49-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extract residues (coal), naphthalene oil, alk.; Naphthalene Oil Extract Residue; [A complex combination of hydrocarbons obtained from the alkali washing of naphthalene oil to remove phenolic compounds (tar acids). It is composed of naphthalene and alkyl naphthalenes.]		121620-47-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extract residues (coal), naphthalene oil, alk., naphthalene-low; Naphthalene Oil Extract Residue; [A complex combination of hydrocarbons remaining after the removal of naphthalene from alkali-washed naphthalene oil by a crystallization process. It is composed primarily of naphthalene and alkyl naphthalenes.]		121620-48-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal tar), naphthalene oils, naphthalene-free, alk. exts.; Naphthalene Oil Extract Residue; [The oil remaining after the removal of phenolic compounds (tar acids) from drained naphthalene oil by an alkali wash. Composed primarily of naphthalene and alkyl naphthalenes.]		90640-90-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extract residues (coal), naphthalene oil alk., distn. overheads; Naphthalene Oil Extract Residue; [The distillate from alkali-washed naphthalene oil having an approximate distillation range of 180°C to 220°C (356°F to 428°F). Composed primarily of naphthalene, alkylbenzenes, indene and indan.]		90641-04-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

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Distillates (coal tar), naphthalene oils, methylnaphthalene fraction; Methylnaphthalene Oil; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of substituted two ring aromatic hydrocarbons and aromatic nitrogen bases boiling in the range of approximately 225°C to 255°C (437°F to 491°F).]		101896-27-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), naphthalene oils, indole-methylnaphthalene fraction; Methylnaphthalene Oil; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of indole and methylnaphthalene boiling in the range of approximately 235°C to 255°C (455°F to 491°F).]		101794-91-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), naphthalene oils, acid exts.; Methylnaphthalene Oil Extract Residue; [A complex combination of hydrocarbons obtained by debasing the methylnaphthalene fraction obtained by the distillation of coal tar and boiling in the range of approximately 230°C to 255°C (446°F to 491°F). Contains chiefly 1(2)-methylnaphthalene, naphthalene, dimethylnaphthalene and biphenyl.]		91995-48-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extract residues (coal), naphthalene oil alk., distn. residues; Methylnaphthalene Oil Extract Residue; [The residue from the distillation of alkali-washed naphthalene oil having an approximate distillation range of 220°C to 300°C (428°F to 572°F). Composed primarily of naphthalene, alkyl naphthalenes and aromatic nitrogen bases.]		90641-05-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extract oils (coal), acidic, tar-base free; Methylnaphthalene Oil Extract Residue; [The extract oil boiling in the range of approximately 220°C to 265°C (428°F to 509°F) from coal tar alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove tar bases. Composed primarily of alkyl naphthalenes.]		84989-12-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (coal tar), benzole fraction, distn. residues; Wash Oil; [A complex combination of hydrocarbons obtained from the distillation of crude benzole (high temperature coal tar). It may be a liquid with the approximate distillation range of 150°C to 300°C (302°F to 572°F) or a semi-solid or solid with a melting point up to 70°C (158°F). It is composed primarily of naphthalene and alkyl naphthalenes.]		121620-46-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Creosote oil, high-boiling distillate; Wash Oil; [The high-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillates, removed. It is crystal free at approximately 5°C (41°F).]		70321-79-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extract residues (coal), creosote oil acid; Wash Oil Extract Residue; [A complex combination of hydrocarbons from the base-freed fraction from the distillation of coal tar, boiling in the range of approximately 250°C to 280°C (482°F to 536°F). It consists predominantly of biphenyl and isomeric diphenylnaphthalenes.]		122384-77-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residues (coal tar), anthracene oil distn.; Anthracene Oil Fraction; [The residue from the fraction distillation of crude anthracene boiling in the approximate range of 340°C to 400°C (644°F to 752°F). It consists predominantly of tri- and polynuclear aromatic and heterocyclic hydrocarbons.]		92061-92-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Anthracene oil, anthracene paste, carbazole fraction; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous coal high temperature tar and boiling in the approximate range of 350°C to 360°C (662°F to 680°F). It contains chiefly anthracene, carbazole and phenanthrene.]		91995-16-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar oils, coal, low-temp.; Tar Oil, high boiling; [A distillate from low-temperature coal tar. Composed primarily of hydrocarbons, phenolic compounds and aromatic nitrogen bases boiling in the range of approximately 160°C to 340°C (320°F to 644°F).]		101316-87-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Phenols, ammonia liquor ext.; Alkaline Extract; [The combination of phenols extracted, using isobutyl acetate, from the ammonia liquor condensed from the gas evolved in low-temperature (less than 700°C (1292°F)) destructive distillation of coal. It consists predominantly of a reaction mass of monohydric and dihydric phenols.]		84988-93-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (coal tar), light oils, alk. exts.; Alkaline Extract; [The aqueous extract from carbolic oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]		90640-88-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extracts, coal tar oil alk.; Alkaline Extract; [The extract from coal tar oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]		65996-83-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (coal tar), naphthalene oils, alk. exts.; Alkaline Extract; [The aqueous extract from naphthalene oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]		90640-89-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extract residues (coal), tar oil alk., carbonated, limed; Crude Phenols; [The product obtained by treatment of coal tar oil alkaline extract with CO2 and CaO. Composed primarily of CaCO3, Ca(OH)2, Na2CO3 and other organic and inorganic impurities.]		90641-06-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar acids, brown-coal, crude; Crude Phenols; [An acidified alkaline extract of brown coal tar distillate. Composed primarily of phenol and phenol homologs.]		101316-86-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar acids, brown-coal gasification; Crude Phenols; [A complex combination of organic compounds obtained from brown coal gasification. Composed primarily of C6-10 hydroxy aromatic phenols and their homologs.]		92062-22-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar acids, distn. residues; Distillate Phenols; [A residue from the distillation of crude phenol from coal. It consists predominantly of phenols having carbon numbers in the range of C8 through C10 with a softening point of 60°C to 80°C (140°F to 176°F).]		96690-55-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar acids, methylphenol fraction; Distillate Phenols; [The fraction of tar acid rich in 3- and 4-methylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]		84989-04-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			



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Tar acids, polyalkylphenol fraction; Distillate Phenols; [The fraction of tar acids, recovered by distillation of low-temperature coal tar crude tar acids, having an approximate boiling range of 225°C to 320°C (437°F to 608°F). Composed primarily of polyalkylphenols.]		84989-05-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, xylene fraction; Distillate Phenols; [The fraction of tar acids, rich in 2,4- and 2,5-dimethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]		84989-06-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, ethylphenol fraction; Distillate Phenols; [The fraction of tar acids, rich in 3- and 4-ethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]		84989-03-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, 3,5-xylene fraction; Distillate Phenols; [The fraction of tar acids, rich in 3,5-dimethylphenol, recovered by distillation of low-temperature coal tar acids.]		84989-07-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, residues, distillates, first-cut; Distillate Phenols; [The residue from the distillation in the range of 235°C to 355°C (481°F to 697°F) of light carboil oil.]		68477-23-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, cresylic, residues; Distillate Phenols; [The residue from crude coal tar acids after removal of phenol, cresols, xylenols and any higher boiling phenols. A black solid with a melting point approximately 80°C (176°F). Composed primarily of polyalkylphenols, resin gums, and inorganic salts.]		68555-24-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Phenols, C9-11; Distillate Phenols		91079-47-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, cresylic; Distillate Phenols; [A complex combination of organic compounds obtained from brown coal and boiling in the range of approximately 200°C to 230°C (392°F to 446°F). It contains chiefly phenols and pyridine bases.]		92062-26-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, brown-coal, C2-alkylphenol fraction; Distillate Phenols; [The distillate from the acidification of alkaline washed lignite tar distillate boiling in the range of approximately 200°C to 230°C (392°F to 446°F). Composed primarily of m- and p-ethylphenol as well as cresols and xylenols.]		94114-29-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Extract oils (coal), naphthalene oils; Acid Extract; [The aqueous extract produced by an acidic wash of alkali-washed naphthalene oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]		90641-00-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar bases, quinoline derivs.; Distillate Bases		68513-87-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar bases, coal, quinoline derivs. fraction; Distillate Bases		70321-67-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar bases, coal, distn. residues; Distillate Bases; [The distillation residue remaining after the distillation of the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of coal tars. It contains chiefly aniline, collidines, quinoline and quinoline derivatives and toluidines.]		92062-29-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Hydrocarbon oils, arom., mixed with polyethylene and polypropylene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of a polyethylene/polypropylene reaction mass with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70°C to 120°C (158°F to 248°F).]		100801-63-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbon oils, arom., mixed with polyethylene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of polyethylene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of 70°C to 120°C (158°F to 248°F).]		100801-65-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbon oils, arom., mixed with polystyrene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of polystyrene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70°C to 210°C (158°F to 410°F).]		100801-66-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Extract residues (coal), tar oil alk., naphthalene distn. residues; Naphthalene Oil Extract Residue; [The residue obtained from chemical oil extracted after the removal of naphthalene by distillation composed primarily of two to four membered condensed ring aromatic hydrocarbons and aromatic nitrogen bases.]		73665-18-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Creosote oil, low-boiling distillate; Wash Oil; [The low-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal, which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillate, removed. It is crystal free at approximately 38°C (100°F).]		70321-80-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar acids, cresylic, sodium salts, caustic solns.; Alkaline Extract		68815-21-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Extract oils (coal), tar base; Acid Extract; [The extract from coal tar oil alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove naphthalene. Composed primarily of the acid salts of various aromatic nitrogen bases including pyridine, quinoline, and their alkyl derivatives.]		65996-86-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tar bases, coal, crude; Crude Tar Bases; [The reaction product obtained by neutralizing coal tar base extract oil with an alkaline solution, such as aqueous sodium hydroxide, to obtain the free bases. Composed primarily of such organic bases as acridine, phenanthridine, pyridine, quinoline and their alkyl derivatives.]		65996-84-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Residues (coal), liq. solvent extrn.; [A cohesive powder composed of coal mineral matter and undissolved coal remaining after extraction of coal by a liquid solvent.]		94114-46-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Coal liquids, liq. solvent extrn. soln.; [The product obtained by filtration of coal mineral matter and undissolved coal from coal extract solution produced by digesting coal in a liquid solvent. A black, viscous, highly complex liquid combination composed primarily of aromatic and partly hydro-genated aromatic hydrocarbons, aromatic nitrogen compounds, aromatic sulfur compounds, phenolic and other aromatic oxygen compounds and their alkyl derivatives.]		94114-47-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Coal liquids, liq. solvent extrn.; [The substantially solvent-free product obtained by the distillation of the solvent from filtered coal extract solution produced by digesting coal in a liquid solvent. A black semi-solid, composed primarily of a complex combination of condensed-ring aromatic hydrocarbons, aromatic nitrogen compounds, aromatic sulfur compounds, phenolic compounds and other aromatic oxygen compounds, and their alkyl derivatives.]		94114-48-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar brown-coal; [An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, their alkyl derivatives, heteroaromatics and one- and two-ring phenols boiling in the range of approximately 150 °C to 360 °C (302 °F to 680 °F).]		101316-83-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tar, brown-coal, low-temp.; [A tar obtained from low temperature carbonization and low temperature gasification of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons, heteroaromatic hydrocarbons and cyclic phenols.]		101316-84-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Light oil (coal), coke-oven; Crude benzole; [The volatile organic liquid extracted from the gas evolved in the high temperature (greater than 700°C (1292°F)) destructive distillation of coal. Composed primarily of benzene, toluene, and xylenes. May contain other minor hydrocarbon constituents.]		65996-78-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (coal), liq. solvent extrn., primary; [The liquid product of condensation of vapors emitted during the digestion of coal in a liquid solvent and boiling in the range of approximately 30°C to 300°C (86°F to 572°F). Composed primarily of partly hydrogenated condensed-ring aromatic hydrocarbons, aromatic compounds containing nitrogen, oxygen and sulfur, and their alkyl derivatives having carbon numbers predominantly in the range of C4 through C14.]		94114-52-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (coal), solvent extrn., hydrocracked; [Distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30°C to 300°C (86°F to 572°F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C4 through C14. Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]		94114-53-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (coal), solvent extrn., hydrocracked; [Fraction of the distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30°C to 180°C (86°F to 356°F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C4 to C9. Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]		94114-54-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

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Gasoline, coal solvent extrn., hydrocracked naphtha; [Motor fuel produced by the reforming of the refined naphtha fraction of the products of hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30 °C to 180 °C (86 °F to 356 °F). Composed primarily of aromatic and naphthenic hydrocarbons, their alkyl derivatives and alkyl hydrocarbons having carbon numbers in the range of C4 through C9.]		94114-55-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal), solvent extrn., hydrocracked middle; [Distillate obtained from the hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180°C to 300°C (356°F to 572°F). Composed primarily of two-ring aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes having carbon numbers predominantly in the range of C9 through C14. Nitrogen, sulfur and oxygen-containing compounds are also present.]		94114-56-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (coal), solvent extrn., hydrocracked hydrogenated middle; [Distillate from the hydrogenation of hydrocracked middle distillate from coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180°C to 280°C (356°F to 536°F). Composed primarily of hydrogenated two- ring carbon compounds and their alkyl derivatives having carbon numbers predominantly in the range of C9 through C14.]		94114-57-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Light oil (coal), semi-coking process; Fresh oil; [The volatile organic liquid condensed from the gas evolved in the low-temperature (less than 700°C (1292°F)) destructive distillation of coal. Composed primarily of C6-10 hydrocarbons.]		90641-11-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extracts (petroleum), light naphthenic distillate solvent		64742-03-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extracts (petroleum), heavy paraffinic distillate solvent		64742-04-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extracts (petroleum), light paraffinic distillate solvent		64742-05-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extracts (petroleum), heavy naphthenic distillate solvent		64742-11-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Extracts (petroleum), light vacuum gas oil solvent		91995-78-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
hydrocarbons C26-55, arom-rich		97722-04-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Residues (petroleum), atm. tower; Heavy Fuel oil; [A complex residuum from the atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64741-45-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Gas oils (petroleum), heavy vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and boiling in the range of approximately 350 °C to 600 °C (662 °F to 1112 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64741-57-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Distillates (petroleum), heavy catalytic cracked; Heavy Fuel oil; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C35 and boiling in the range of approximately 260 °C to 500 °C (500 °F to 932 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64741-61-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Clarified oils (petroleum), catalytic cracked; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from distillation of the products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64741-62-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Residues (petroleum), hydrocracked; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from distillation of the products of a hydrocracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350 °C (662 °F).]		64741-75-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Residues (petroleum), thermal cracked; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from distillation of the product from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64741-80-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (petroleum), heavy thermal cracked; Heavy Fuel oil; [A complex combination of hydrocarbons from the distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C15 through C36 and boiling in the range of approximately 260 °C to 480 °C (500 °F to 896 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64741-81-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Gas oils (petroleum), hydrotreated vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C13 through C50 and boiling in the range of approximately 230 °C to 600 °C (446 °F to 1112 °F). This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64742-59-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Residues (petroleum), hydrodesulfurized atmospheric tower; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by treating an atmospheric tower residuum with hydrogen in the presence of a catalyst under conditions primarily to remove organic sulfur compounds. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64742-78-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
Gas oils (petroleum), hydrodesulfurized heavy vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and boiling in the range of approximately 350 °C to 600 °C (662 °F to 1112 °C). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64742-86-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residues (petroleum), steam-cracked; Heavy Fuel oil; [A complex combination of hydrocarbons obtained as the residual fraction from the distillation of the products of a steam cracking process (including steam cracking to produce ethylene). It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly greater than C14 and boiling above approximately 260 °C (500 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		64742-90-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residues (petroleum), atmospheric; Heavy Fuel oil; [A complex residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C11 and boiling above approximately 200 °C (392 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		68333-22-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Clarified oils (petroleum), hydrodesulfurized catalytic cracked; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by treating catalytic cracked clarified oil with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		68333-26-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrodesulfurized intermediate catalytic cracked; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by treating intermediate catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C30 and boiling in the range of approximately 205 °C to 450 °C (401 °F to 842 °F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.]		68333-27-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrodesulfurized heavy catalytic cracked; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by treatment of heavy catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C35 and boiling in the range of approximately 260 °C to 500 °C (500 °F to 932 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		68333-28-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Fuel oil, residues-straight-run gas oils, high-sulfur; Heavy Fuel oil		68476-32-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Fuel oil, residual; Heavy Fuel oil; [The liquid product from various refinery streams, usually residues. The composition is complex and varies with the source of the crude oil.]		68476-33-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Residues (petroleum), catalytic reformer fractionator residue distn.; Heavy Fuel oil; [A complex residuum from the distillation of catalytic reformer fractionator residue. It boils approximately above 399 °C (750 °F).]		68478-13-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Residues (petroleum), heavy coker gas oil and vacuum gas oil; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy coker gas oil and vacuum gas oil. It predominantly consists of hydrocarbons having carbon numbers predominantly greater than C13 and boiling above approximately 230 °C (446 °F).]		68478-17-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Residues (petroleum), heavy coker and light vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy coker gas oil and light vacuum gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C13 and boiling above approximately 230 °C (446 °F).]		68512-61-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Residues (petroleum), light vacuum; Heavy Fuel oil; [A complex residuum from the vacuum distillation of the residuum from the atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C13 and boiling above approximately 230 °C (446 °F).]		68512-62-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Residues (petroleum), steam-cracked light; Heavy Fuel oil; [A complex residuum from the distillation of the products from a steam-cracking process. It consists predominantly of aromatic and unsaturated hydrocarbons having carbon numbers greater than C7 and boiling in the range of approximately 101 °C to 555 °C (214 °F to 1030 °F).]		68513-69-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Fuel oil, No 6; Heavy Fuel oil; [A distillate oil having a minimum viscosity of 900 SUS at 37.7 °C (100 °F) to a maximum of 9000 SUS at 37.7 °C (100 °F).]		68553-00-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Residues (petroleum), topping plant, low-sulfur; Heavy Fuel oil; [A low-sulfur complex combination of hydrocarbons produced as the residual fraction from the topping plant distillation of crude oil. It is the residuum after the straight-run gasoline cut, kerosene cut and gas oil cut have been removed.]		68607-30-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gas oils (petroleum), heavy atmospheric; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C35 and boiling in the range of approximately 121 °C to 510 °C (250 °F to 950 °F).]		68783-08-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Residues (petroleum), coker scrubber, Condensed-ring-arom.-contg.; Heavy Fuel oil; [A very complex combination of hydrocarbons produced as the residual fraction from the distillation of vacuum residuum and the products from a thermal cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		68783-13-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), petroleum residues vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from the atmospheric distillation of crude oil.]		68955-27-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Residues (petroleum), steam-cracked, resinous; Heavy Fuel oil; [A complex residuum from the distillation of steam-cracked petroleum residues.]		68955-36-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), intermediate vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons produced by the vacuum, distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C14 through C42 and boiling in the range of approximately 250 °C to 545 °C (482 °F to 1013 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		70592-76-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), light vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C35 and boiling in the range of approximately 250 °C to 545 °C (482 °F to 1013 °F).]		70592-77-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having numbers predominantly in the range of C15 through C50 and boiling in the range of approximately 270 °C to 600 °C (518 °F to 1112 °F). This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		70592-78-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gas oils (petroleum), hydrodesulfurized coker heavy vacuum; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by hydrodesulfurization of heavy coker distillate stocks, It consists predominantly of hydrocarbons having carbon numbers predominantly in the range C18 to C44 and boiling in the range of approximately 304 °C to 548 °C (579 °F to 1018 °F). Likely to contain 5 % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		85117-03-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residues (petroleum), steam-cracked, distillates; Heavy Fuel oil; [A complex combination of hydrocarbons obtained during the production of refined petroleum tar by the distillation of steam cracked tar. It consists predominantly of aromatic and other hydrocarbons and organic sulfur compounds.]		90669-75-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residues (petroleum), vacuum, light; Heavy Fuel oil; [A complex residuum from the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C24 and boiling above approximately 390 °C (734 °F).]		90669-76-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Fuel oil, heavy, high-sulfur; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by the distillation of crude petroleum. It consists predominantly of aliphatic, aromatic and cycloaliphatic hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400 °C (752 °F).]		92045-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA			
Residues (petroleum), catalytic cracking; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from the distillation of the products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C11 and boiling above approximately 200 °C (392 °F).]		92061-97-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Distillates (petroleum), intermediate catalytic cracked, thermally degraded; Heavy Fuel oil; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process which has been used as a heat transfer fluid. It consists predominantly of hydrocarbons boiling in the range of approximately 220 °C to 450 °C (428 °F to 842 °F). This stream is likely to contain organic sulfur compounds.]		92201-59-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Residual oils (petroleum); Heavy Fuel oil; [A complex combination of hydrocarbons, sulfur compounds and metal-containing organic compounds obtained as the residue from refinery fractionation cracking processes. It produces a finished oil with a viscosity above 2cSt. at 100 °C.]		93821-66-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Residues, steam cracked, thermally treated; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by the treatment and distillation of raw steam-cracked naphtha. It consists predominantly of unsaturated hydrocarbons boiling in the range above approximately 180 °C (356 °F).]		98219-64-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Distillates (petroleum), hydrodesulfurized full-range middle; Heavy Fuel oil; [A complex combination of hydrocarbons obtained by treating a petroleum stock with hydrogen. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150 °C to 400 °C (302 °F to 752 °F).]		101316-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Residues (petroleum), catalytic reformer fractionator; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from distillation of the product from a catalytic reforming process. It consists of predominantly aromatic hydrocarbons having carbon numbers predominantly in the range of C10 through C25 and boiling in the range of approximately 160 °C to 400 °C (320 °F to 725 °F). This stream is likely to contain 5 wt. % or more of 4- or 6-membered condensed ring aromatic hydrocarbons.]		64741-67-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Petroleum; Crude oil; [A complex combination of hydrocarbons, It consists predominantly of aliphatic, alicyclic and aromatic hydrocarbons. It may also contain small amounts of nitrogen, oxygen and sulfur compounds. This category encompasses light, medium, and heavy petroleums, as well as the oils extended from tar sands. Hydrocarbonaceous materials requiring major chemical changes for their recovery or conversion to petroleum refinery feedstocks such as crude shale oils; upgraded shale oils and liquid coal fuels are not included in this definition.]		8002-05-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				

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Distillates (petroleum), light paraffinic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 ° C). It contains a relatively large proportion of saturated aliphatic hydrocarbons normally present in this distillation range of crude oil.]		64741-50-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), heavy paraffinic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 ° C). It contains a relatively large proportion of saturated aliphatic hydrocarbons.]		64741-51-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), light naphthenic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 ° C). It contains relatively few normal paraffins.]		64741-52-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), heavy naphthenic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 ° C). It contains relatively few normal paraffins.]		64741-53-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), acid-treated heavy naphthenic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 ° C). It contains relatively few normal paraffins.]		64742-18-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), acid-treated light naphthenic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 ° C). It contains relatively few normal paraffins.]		64742-19-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), acid-treated heavy paraffinic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil having a viscosity of at least 100 SUS at 100 °F (19cSt at 40 ° C).]		64742-20-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Distillates (petroleum), acid-treated light paraffinic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil having a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).]		64742-21-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), chemically neutralized heavy paraffinic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons obtained from a treating process to remove acidic materials. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of aliphatic hydrocarbons.]		64742-27-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), chemically neutralized light paraffinic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity less than 100 SUS at 100 °F (19cSt at 40 °C).]		64742-28-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), chemically neutralized heavy naphthenic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-34-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), chemically neutralized light naphthenic; Unrefined or mildly refined baseoil; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS a 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-35-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), catalytic cracked naphtha depropanizer overhead, C3-rich acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked hydrocarbons and treated to remove acidic impurities. It consists of hydrocarbons having carbon numbers in the range of C2 through C4, predominantly C3.]		68477-73-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), catalytic cracker; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68477-74-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), catalytic cracker, C1-5-rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C1 through C6, predominantly C1 through C5.]		68477-75-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Gases (petroleum), catalytic polymd. naphtha stabilizer overhead, C2-4-rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic polymerized naphtha. It consists of aliphatic hydrocarbons having carbon numbers in the range of C2 through C6, predominantly C2 through C4.]		68477-76-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), catalytic reformer, C1-4-rich; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers in the range of C1 through C6, predominantly C1 through C4.]		68477-79-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), C3-5 olefinic-paraffinic alkylation feed; Petroleum gas; [A complex combination of olefinic and paraffinic hydrocarbons having carbon numbers in the range of C3 through C5 which are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.]		68477-83-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), C4-rich; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from a catalytic fractionation process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C3 through C5, predominantly C4.]		68477-85-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), deethanizer overheads; Petroleum gas; [A complex combination of hydrocarbons produced from distillation of the gas and gasoline fractions from the catalytic cracking process. It contains predominantly ethane and ethylene.]		68477-86-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), deisobutanizer tower overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the atmospheric distillation of a butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C4.]		68477-87-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), depropanizer dry, propene-rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists predominantly of propylene with some ethane and propane.]		68477-90-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), depropanizer overheads; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]		68477-91-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), gas recovery plant depropanizer overheads; Petroleum gas; [A complex combination of hydrocarbons obtained by fractionation of miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C4, predominantly propane.]		68477-94-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), Girbotol unit feed; Petroleum gas; [A complex combination of hydrocarbons that is used as the feed into the Girbotol unit to remove hydrogen sulfide. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]		68477-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas		68477-99-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

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Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked clarified oil and thermal cracked vacuum residue. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68478-21-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tail gas (petroleum), catalytic cracked naphtha stabilization absorber; Petroleum gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68478-22-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer combined fractionater; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurizing processes treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68478-24-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic reformed naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68478-26-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tail gas (petroleum), saturate gas plant mixed stream, C4-rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of straight-run naphtha, distillation tail gas and catalytic reformed naphtha stabilizer tail gas. It consists of hydrocarbons having carbon numbers in the range of C3 through C6, predominantly butane and isobutane.]		68478-32-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tail gas (petroleum), saturate gas recovery plant, C1-2-rich; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed naphtha stabilizer tail gas. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C5, predominantly methane and ethane.]		68478-33-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Tail gas (petroleum), vacuum residues thermal cracker; Petroleum gas; [A complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68478-34-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Hydrocarbons, C3-4-rich, petroleum distillate; Petroleum gas; [A complex combination of hydrocarbons produced by distillation and condensation of crude oil. It consists of hydrocarbons having carbon numbers in the range of C3 through C5, predominantly C3 through C4.]		68512-91-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Gases (petroleum), full-range straight-run naphtha dehexanizer off; petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of the full-range straight-run naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]		68513-15-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich; Petroleum gas; [A complex combination of hydrocarbon produced by the distillation of products from a hydrocracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4. It may also contain small amounts of hydrogen and hydrogen sulfide.]		68513-16-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●				
Gases (petroleum), light straight-run naphtha stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the stabilization of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]		68513-17-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Residues (petroleum), alkylation splitter, C4-rich; Petroleum gas; [A complex residuum from the distillation of streams various refinery operations. It consists of hydrocarbons having carbon numbers in the range of C4 through C5, predominantly butane and boiling in the range of approximately - 11.7 °C to 27.8 °C (11 °F to 82 °F).]		68513-66-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, C1-4; Petroleum gas; [A complex combination of hydrocarbons provided by thermal cracking and absorber operations and by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4 and boiling in the range of approximately minus 164 °C to minus 0.5 °C (- 263 °F to 31 °F).]		68514-31-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, C1-4, sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting hydrocarbon gases to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4 and boiling in the range of approximately - 164 °C to - 0.5 °C (- 263 °F to 31 °F).]		68514-36-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, C1-3; Petroleum gas; [A complex combination of hydrocarbons having carbon numbers predominantly in the range of C1 through C3 and boiling in the range of approximately minus 164 °C to minus 42 °C (- 263 °F to - 44 °F).]		68527-16-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, C1-4, debutanizer fraction; Petroleum gas		68527-19-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Gases (petroleum), C1-5, wet; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil and/or the cracking of tower gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68602-83-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, C2-4; Petroleum gas		68606-25-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, C3; Petroleum gas		68606-26-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Gases (petroleum), alkylation feed; Petroleum gas; [A complex combination of hydrocarbons produced by the catalytic cracking of gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C4.]		68606-27-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Gases (petroleum), depropanizer bottoms fractionation off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists predominantly of butane, isobutane and butadiene.]		68606-34-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			

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Gases (petroleum), refinery blend; Petroleum gas; [A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68783-07-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), catalytic cracking; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C3 through C5.]		68783-64-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), C2-4, sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C2 through C4 and boiling in the range of approximately - 51 °C to - 34 °C (- 60 °F to - 30 °F).]		68783-65-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), crude oil fractionation off; Petroleum gas; [A complex combination of hydrocarbons produced by the fractionation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68918-99-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), dehexanizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of combined naphtha streams. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68919-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), light straight run gasoline fractionation stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68919-05-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), naphtha unifier desulfurization stripper off; Petroleum gas; [A complex combination of hydrocarbons produced by a naphtha unifier desulfurization process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68919-06-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), straight-run naphtha catalytic reforming off; Petroleum gas; [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and fractionation of the total effluent. It consists of methane, ethane, and propane.]		68919-09-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), fluidized catalytic cracker splitter overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the fractionation of the charge to the C3-C4 splitter. It consists predominantly of C3 hydrocarbons.]		68919-20-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), straight-run stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of the liquid from the first tower used in the distillation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68919-10-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Gases (petroleum), catalytic cracked naphtha debutanizer; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68952-76-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tail gas (petroleum), catalytic cracked distillate and naphtha stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of catalytic cracked naphtha and distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68952-77-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tail gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber; petroleum gas; [A complex combination of hydrocarbons obtained from the separation of thermal-cracked distillates, naphtha and gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68952-81-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabilizer, petroleum coking; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of thermal cracked hydrocarbons from petroleum coking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68952-82-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum, light steam-cracked, butadiene conc.; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists of hydrocarbons having a carbon number predominantly of C4.]		68955-28-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), straight-run naphtha catalytic reformer stabilizer overhead; Petroleum gas; [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]		68955-34-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C4; Petroleum gas		87741-01-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Alkanes, C1-4, C3-rich; Petroleum gas		90622-55-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), steam-cracker C3-rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a steam cracking process. It consists predominantly of propylene with some propane and boils in the range of approximately - 70 °C to 0 °C (- 94 °F to 32 °F).]		92045-22-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C4, steam-cracker distillate; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products of a steam cracking process. It consists predominantly of hydrocarbons having a carbon number of C4, predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately minus 12 °C to 5 °C (10.4 °F to 41 °F).]		92045-23-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Petroleum gases, liquefied, sweetened, C4 fraction; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting a liquefied petroleum gas mix to a sweetening process to oxidize mercaptans or to remove acidic impurities. It consists predominantly of C4 saturated and unsaturated hydrocarbons.]		92045-80-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			



5. List of NSK Environmentally Harmful Substances (details)

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Hydrocarbons, C4, 1,3-butadiene- and isobutene-free; Petroleum gas		95465-89-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Raffinates (petroleum), steam-cracked C4 fraction cuprous ammonium acetate extrn., C3-5 and C3-5 unsatd., butadiene-free; Petroleum gas		97722-19-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), amine system feed; Refinery gas; [The feed gas to the amine system for removal of hydrogen sulfide. It consists of hydrogen. Carbon monoxide, carbon dioxide, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5 may also be present.]		68477-65-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), benzene unit hydrodesulfurizer off; Refinery gas; [Off gases produced by the benzene unit. It consists primarily of hydrogen. Carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6, including benzene, may also be present.]		68477-66-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), benzene unit recycle, hydrogen-rich; Refinery gas; [A complex combination of hydrocarbons obtained by recycling the gases of the benzene unit. It consists primarily of hydrogen with various small amounts of carbon monoxide and hydrocarbons having carbon numbers in the range of C1 through C6.]		68477-67-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), blend oil, hydrogen-nitrogen-rich; Refinery gas; [A complex combination of hydrocarbons obtained by distillation of a blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide, and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68477-68-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas; [A complex combination of hydrocarbons obtained from stabilization of catalytic reformed naphtha. Its consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68477-77-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), C6-8 catalytic reformer recycle; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C6-C8 feed and recycled to conserve hydrogen. It consists primarily of hydrogen. It may also contain various small amounts of carbon monoxide, carbon dioxide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68477-80-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), C6-8 catalytic reformer; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C6-C8feed. It consists of hydrocarbons having carbon numbers in the range of C1 through C5 and hydrogen.]		68477-81-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), C6-8 catalytic reformer recycle, hydrogen-rich; Refinery gas		68477-82-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), C2-return stream; Refinery gas; [A complex combination of hydrocarbons obtained by the extraction of hydrogen from a gas stream which consists primarily of hydrogen with small amounts of nitrogen, carbon monoxide, methane, ethane, and ethylene. It contains predominantly hydrocarbons such as methane, ethane, and ethylene with small amounts of hydrogen, nitrogen and carbon monoxide.]		68477-84-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Gases (petroleum), dry sour, gas-concn.-unit-off; Refinery gas; [The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]		68477-92-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), gas concn. reabsorber distn.; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from combined gas streams in a gas concentration reabsorber. It consists predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and hydrocarbons having carbon numbers in the range of C1 through C3.]		68477-93-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), hydrogen absorber off; Refinery gas; [A complex combination obtained by absorbing hydrogen from a hydrogen rich stream. It consists of hydrogen, carbon monoxide, nitrogen, and methane with small amounts of C2 hydrocarbons.]		68477-96-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), hydrogen-rich; Refinery gas; [A complex combination separated as a gas from hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]		68477-97-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68477-98-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled reactor gases. It consists primarily of hydrogen with various small amounts of carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers in the range of C1 through C5.]		68478-00-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reformers. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68478-01-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), reforming hydrotreater; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C5.]		68478-02-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen and methane with various small amounts of carbon monoxide, carbon dioxide, nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C5.]		68478-03-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68478-04-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Gases (petroleum), thermal cracking distn.; Refinery gas; [A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulfide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68478-05-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Tail gas (petroleum), catalytic cracker refractionation absorber; Refinery gas; [A complex combination of hydrocarbons obtained from refractionation of products from a catalytic cracking process. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]		68478-25-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from the catalytic reforming of straight run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68478-27-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Tail gas (petroleum), catalytic reformed naphtha stabilizer; Refinery gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic reformed naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68478-28-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas; [A complex combination of hydrocarbons obtained by treating cracked distillates with hydrogen in the presence of a catalyst. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68478-29-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Tail gas (petroleum), hydrodesulfurized straight-run naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from hydrodesulfurization of straight-run naphtha. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68478-30-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overheads; Refinery gas; [A complex combination of hydrocarbons obtained from the catalytic reforming of straight-run naphtha followed by fractionation of the total effluent. It consists of hydrogen, methane, ethane and propane.]		68513-14-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Gases (petroleum), reformer effluent high-pressure flash drum off; Refinery gas; [A complex combination produced by the high-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]		68513-18-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas; [A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]		68513-19-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			

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Gases (petroleum), oil refinery gas distn. off; Refinery gas; [A complex combination separated by distillation of a gas stream containing hydrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers in the range of C1 through C6 or obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C2, hydrogen, nitrogen, and carbon monoxide.]		68527-15-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas; [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6. It may contain trace amounts of benzene.]		68602-82-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads fractionator; Refinery gas; [A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidized catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]		68602-84-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Petroleum products, refinery gases; Refinery gas; [A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]		68607-11-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), hydrocracking low-pressure separator; Refinery gas; [A complex combination obtained by the liquid-vapor separation of the hydrocracking process reactor effluent. It consists predominantly of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]		68783-06-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), refinery; Refinery gas; [A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]		68814-67-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), platformer products separator off; Refinery gas; [A complex combination obtained from the chemical reforming of naphthenes to aromatics. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]		68814-90-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), hydrotreated sour kerosine depentanizer stabilizer off; Refinery gas; [The complex combination obtained from the depentanizer stabilization of hydrotreated kerosine. It consists primarily of hydrogen, methane, ethane, and propane with various small amounts of nitrogen, hydrogen sulfide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C4 through C5.]		68911-58-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas; [A complex combination obtained from the flash drum of the unit treating sour kerosine with hydrogen in the presence of a catalyst. It consists primarily of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydrocarbons having carbon numbers predominantly in the range of C2 through C5.]		68911-59-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Gases (petroleum), distillate unfiner desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the unfiner desulfurization process. It consists of hydrogen sulfide, methane, ethane, and propane.]		68919-01-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), fluidized catalytic cracker fractionation off; Refinery gas; [A complex combination produced by the fractionation of the overhead product of the fluidized catalytic cracking process. It consists of hydrogen, hydrogen sulfide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68919-02-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), fluidized catalytic cracker scrubbing secondary absorber off; Refinery gas; [A complex combination produced by scrubbing the overhead gas from the fluidized catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.]		68919-03-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), heavy distillate hydrotreater desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulfurization process. It consists of hydrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68919-04-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), platformer stabilizer off, light ends fractionation; Refinery gas; [A complex combination obtained by the fractionation of the light ends of the platinum reactors of the platformer unit. It consists of hydrogen, methane, ethane and propane.]		68919-07-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), preflash tower off, crude distn.; Refinery gas; [A complex combination produced from the first tower used in the distillation of crude oil. It consists of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68919-08-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), tar stripper off; Refinery gas; [A complex combination obtained by the fractionation of reduced crude oil. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68919-11-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), unfiner stripper off; Refinery gas; [A combination of hydrogen and methane obtained by fractionation of the products from the unfiner unit.]		68919-12-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), catalytic hydrodesulfurized naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from the hydrodesulfurization of naphtha. It consists of hydrogen, methane, ethane, and propane.]		68952-79-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), straight-run naphtha hydrodesulfurizer; Refinery gas; [A complex combination obtained from the hydrodesulfurization of straight-run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68952-80-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Gases (petroleum), sponge absorber off, fluidized catalytic cracker and gas oil desulfurizer overhead fractionation; Refinery gas; [A complex combination obtained by the fractionation of products from the fluidized catalytic cracker and gas oil desulfurizer. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68955-33-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), crude distn. and catalytic cracking; Refinery gas; [A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulfide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68989-88-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas; [A complex combination produced by desulfurization of gas oils with diethanolamine. It consists predominantly of hydrogen sulfide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of C1 through C5.]		92045-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), gas oil hydrodesulfurization effluent; Refinery gas; [A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction. It consists predominantly of hydrogen, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]		92045-16-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), gas oil hydrodesulfurization purge; Refinery gas; [A complex combination of gases obtained from the reformer and from the purges from the hydrogenation reactor. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		92045-17-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas; [A complex combination of gases obtained from flash of the effluents after the hydrogenation reaction. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		92045-18-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), naphtha steam cracking high-pressure residual; Refinery gas; [A complex combination obtained as a reaction mass of the non-condensable portions from the product of a naphtha steam cracking process as well as residual gases obtained during the preparation of subsequent products. It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C1 through C5 with which natural gas may also be mixed.]		92045-19-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), residue visbaking off; Refinery gas; [A complex combination obtained from viscosity reduction of residues in a furnace. It consists predominantly of hydrogen sulfide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		92045-20-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Foots oil (petroleum), acid-treated; Foots oil; [A complex combination of hydrocarbons obtained by treatment of Foot's oil with sulfuric acid. It consists predominantly of branched-chain hydrocarbons with carbon numbers predominantly in the range of C20 through C50.]		93924-31-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Foots oil (petroleum), clay-treated; Foots oil; [A complex combination of hydrocarbons obtained by treatment of Foot's oil with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists predominantly of branched chain hydrocarbons with carbon numbers predominantly in the range of C20 through C50.]		93924-32-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gases (petroleum), C3-4; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from the cracking of crude oil. It consists of hydrocarbons having carbon numbers in the range of C3 through C4, predominantly of propane and propylene, and boiling in the range of approximately - 51 °C to - 1 °C (- 60 °F to 30 °F.)]		68131-75-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber; Petroleum gas; [The complex combination of hydrocarbons from the distillation of the products from catalytic cracked distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C4.]		68307-98-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), catalytic polymn. naphtha fractionation stabilizer; Petroleum gas; [A complex combination of hydrocarbons from the fractionation stabilization products from polymerization of naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C4.]		68307-99-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation stabilization of catalytic reformed naphtha and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68308-00-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), cracked distillate hydrotreater stripper; Petroleum gas; [A complex combination of hydrocarbons obtained by treating thermal cracked distillates with hydrogen in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68308-01-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), straight-run distillate hydrodesulfurizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight run distillates and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68308-10-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), gas oil catalytic cracking absorber; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of products from the catalytic cracking of gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68308-03-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Tail gas (petroleum), gas recovery plant; Petroleum gas; [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68308-04-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Tail gas (petroleum), gas recovery plant deethanizer; Petroleum gas; [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68308-05-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Tail gas (petroleum), hydrodesulfurized distillate and hydrodesulfurized naphtha fractionator, acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of hydrodesulfurized naphtha and distillate hydrocarbon streams and treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68308-06-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Tail gas (petroleum), hydrodesulfurized vacuum gas oil stripper, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from stripping stabilization of catalytic hydrodesulfurized vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68308-07-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Tail gas (petroleum), light straight-run naphtha stabilizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation stabilization of light straight run naphtha and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68308-09-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Tail gas (petroleum), propane-propylene alkylation feed prep deethanizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of the reaction products of propane with propylene. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68308-11-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Tail gas (petroleum), vacuum gas oil hydrodesulfurizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]		68308-12-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Gases (petroleum), catalytic cracked overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from the catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C5 and boiling in the range of approximately - 48 °C to 32 °C (- 54 °F to 90 °F).]		68409-99-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Alkanes, C1-2; Petroleum gas		68475-57-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Alkanes, C2-3; Petroleum gas		68475-58-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Alkanes, C3-4; petroleum gas		68475-59-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Alkanes, C4-5; Petroleum gas		68475-60-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				
Fuel gases; Petroleum gas; [A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.]		68476-26-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•				





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Gases (petroleum), catalytic-cracked naphtha debutanizer bottoms, C3-5-rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C5.]		68477-72-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Tail gas (petroleum), isomerized naphtha fractionation stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization products from isomerized naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]		68308-08-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Foots oil (petroleum), carbon-treated; Foots oil; [A complex combination of hydrocarbons obtained by the treatment of Foots oil with activated carbon for the removal of trace constituents and impurities. It consists predominantly of saturated straight chain hydrocarbons having carbon numbers predominantly greater than C12.]		97862-76-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), sweetened middle; Gasoil - unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 150 °C to 345 °C (302 °F to 653 °F).]		64741-86-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gas oils (petroleum), solvent-refined; Gasoil - unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205 °C to 400 °C (401 °F to 752 °F).]		64741-90-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), solvent-refined middle; Gasoil - unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 150 °C to 345 °C (302 °F to 653 °F).]		64741-91-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gas oils (petroleum), acid-treated; Gasoil - unspecified; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C13 through C25 and boiling in the range of approximately 230 °C to 400 °C (446 °F to 752 °F).]		64742-12-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), acid-treated middle; Gasoil - unspecified; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C20 and boiling in the range of approximately 205 °C to 345 °C (401 °F to 653 °F).]		64742-13-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), acid-treated light; Gasoil - unspecified; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 °C to 290 °C (302 °F to 554 °F).]		64742-14-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Gas oils (petroleum), chemically neutralized; Gasoil - unspecified; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C13 through C25 and boiling in the range of approximately 230 °C to 400 °C (446 °F to 752 °F).]		64742-29-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), chemically neutralized middle; Gasoil - unspecified; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C20 and boiling in the range of approximately 205 °C to 345 °C (401 °F to 653 °F).]		64742-30-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), clay-treated middle; Gasoil - unspecified; [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 150 °C to 345 °C (302 °F to 653 °F).]		64742-38-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrotreated middle; Gasoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205 °C to 400 °C (401 °F to 752 °F).]		64742-46-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gas oils (petroleum), hydrodesulfurized; Gasoil - unspecified; [A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C13 through C25 and boiling in the range of approximately 230 °C to 400 °C (446 °F to 752 °F).]		64742-79-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrodesulfurized middle; Gasoil - unspecified; [A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205 °C to 400 °C (401 °F to 752 °F).]		64742-80-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), catalytic reformer fractionator residue, high-boiling; Gasoil - unspecified; [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 343 °C to 399 °C (650 °F to 750 °F).]		68477-29-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gasoil - unspecified; [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 288 °C to 371 °C (550 °F to 700 °F).]		68477-30-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Distillates (petroleum), catalytic reformer fractionator residue, low-boiling; Gasoil - unspecified; [The complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils approximately below 288 °C (550 °F).]		68477-31-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), highly refined middle; Gasoil - unspecified; [A complex combination of hydrocarbons obtained by the subjection of a petroleum fraction to several of the following steps: filtration, centrifugation, atmospheric distillation, vacuum distillation, acidification, neutralization and clay treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C10 through C20.]		90640-93-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum) catalytic reformer, heavy arom. conc.; Gasoil - unspecified; [A complex combination of hydrocarbons obtained from the distillation of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C10 through C16 and boiling in the range of approximately 200 °C to 300 °C (392 °F to 572 °F).]		91995-34-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gas oils, paraffinic; Gasoil - unspecified; [A distillate obtained from the redistillation of a complex combination of hydrocarbons obtained by the distillation of the effluents from a severe catalytic hydrotreatment of paraffins. It boils in the range of approximately 190 °C to 330 °C (374 °F to 594 °F).]		93924-33-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), solvent-refined hydrodesulfurized heavy; Gasoil - unspecified		97488-96-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C16-20, hydrotreated middle distillate, distn. lights; Gasoil - unspecified; [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of a middle distillate with hydrogen. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C16 through C20 and boiling in the range of approximately 290 °C to 350 °C (554 °F to 662 °F). It produces a finished oil having a viscosity of 2cSt at 100 °C (212 °F).]		97675-85-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C12-20, hydrotreated paraffinic, distn. lights; Gasoil - unspecified; [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of heavy paraffins with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C12 through C20 and boiling in the range of approximately 230 °C to 350 °C (446 °F to 662 °F). It produces a finished oil having a viscosity of 2cSt at 100 °C (212 °F).]		97675-86-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C11-17, solvent-extd. light naphthenic; Gasoil - unspecified; [A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 2.2 cSt at 40 °C (104 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C11 through C17 and boiling in the range of approximately 200 °C to 300 °C (392 °F to 572 °F).]		97722-08-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Gas oils, hydrotreated; Gasoil - unspecified; [A complex combination of hydrocarbons obtained from the redistillation of the effluents from the treatment of paraffins with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C27 and boiling in the range of approximately 330 °C to 340 °C (626 °F to 644 °F).]		97862-78-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), carbon-treated light paraffinic; Gasoil - unspecified; [A complex combination of hydrocarbons obtained by the treatment of a petroleum oil fraction with activated charcoal for the removal of traces of polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C12 through C28.]		100683-97-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), intermediate paraffinic, carbon-treated; Gasoil - unspecified; [A complex combination of hydrocarbons obtained by the treatment of petroleum with activated charcoal for the removal of trace polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C16 through C36.]		100683-98-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), intermediate paraffinic, clay-treated; Gasoil - unspecified; [A complex combination of hydrocarbons obtained by the treatment of petroleum with bleaching earth for the removal of trace polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C16 through C36.]		100683-99-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Alkanes, C12-26-branched and linear		90622-53-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Lubricating greases; Grease; [A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. May contain organic salts of alkali metals, alkaline earth metals, and/or aluminium compounds.]		74869-21-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Slack wax (petroleum); Slack wax; [A complex combination of hydrocarbons obtained from a petroleum fraction by solvent crystallization (solvent dewaxing) or as a distillation fraction from a very waxy crude. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C20.]		64742-61-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Slack wax (petroleum), acid-treated; Slack wax; [A complex combination of hydrocarbons obtained as a raffinate by treatment of a petroleum slack wax fraction with sulfuric acid treating process. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C20.]		90669-77-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Slack wax (petroleum), clay-treated; Slack wax; [A complex combination of hydrocarbons obtained by treatment of a petroleum slack wax fraction with natural or modified clay in either a contacting or percolation process. It consists predominantly of saturated straight and branched hydrocarbons having carbon numbers predominantly greater than C20.]		90669-78-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

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Slack wax (petroleum), hydrotreated; Slack wax; [A complex combination of hydrocarbons obtained by treating slack wax with hydrogen in the presence of a catalyst. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C20.]		92062-09-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Slack wax (petroleum), low-melting; Slack wax; [A complex combination of hydrocarbons obtained from a petroleum fraction by solvent deparaffination. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]		92062-10-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Slack wax (petroleum), low-melting, hydrotreated; Slack wax; [A complex combination of hydrocarbons obtained by treatment of low-melting petroleum slack wax with hydrogen in the presence of a catalyst. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]		92062-11-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Slack wax (petroleum), low-melting, carbon-treated; Slack wax; [A complex combination of hydrocarbons obtained by the treatment of low-melting slack wax with activated carbon for the removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]		97863-04-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Slack wax (petroleum), low-melting, clay-treated; Slack wax; [A complex combination of hydrocarbons obtained by the treatment of low-melting petroleum slack wax with bentonite for removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]		97863-05-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Slack wax (petroleum), low-melting, silicic acid-treated; Slack wax; [A complex combination of hydrocarbons obtained by the treatment of low-melting petroleum slack wax with silicic acid for the removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]		97863-06-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Slack wax (petroleum), carbon-treated; Slack wax; [A complex combination of hydrocarbons obtained by treatment of petroleum slack wax with activated charcoal for the removal of trace polar constituents and impurities.]		100684-49-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Petrolatum; Petrolatum; [A complex combination of hydrocarbons obtained as a semi-solid from dewaxing paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon numbers predominantly greater than C25.]		8009-03-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Petrolatum (petroleum), oxidized; Petrolatum; [A complex combination of organic compounds, predominantly high molecular weight carboxylic acids, obtained by the air oxidation of petrolatum.]		64743-01-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Petrolatum (petroleum), alumina-treated; Petrolatum; [A complex combination of hydrocarbons obtained when petrolatum is treated with Al <sub>2</sub> O <sub>3</sub> to remove polar components and impurities. It consists predominantly of saturated, crystalline, and liquid hydrocarbons having carbon numbers predominantly greater than C25.]		85029-74-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Petrolatum (petroleum), hydrotreated; Petrolatum; [A complex combination of hydrocarbons obtained as a semi-solid from dewaxed paraffinic residual oil treated with hydrogen in the presence of a catalyst. It consists predominantly of saturated microcrystalline and liquid hydrocarbons having carbon numbers predominantly greater than C20.]		92045-77-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Petrolatum (petroleum), carbon-treated; Petrolatum; [A complex combination of hydrocarbons obtained by the treatment of petroleum petrolatum with activated carbon for the removal of trace polar constituents and impurities. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly greater than C20.]		97862-97-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Petrolatum (petroleum), silicic acid-treated; Petrolatum; [A complex combination of hydrocarbons obtained by the treatment of petroleum petrolatum with silicic acid for the removal of trace polar constituents and impurities. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly greater than C20.]		97862-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Petrolatum (petroleum), clay-treated; Petrolatum; [A complex combination of hydrocarbons obtained by treatment of petrolatum with bleaching earth for the removal of traces of polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of greater than C25.]		100684-33-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gasoline, natural; Low boiling point naphtha; [A complex combination of hydrocarbons separated from natural gas by processes such as refrigeration or absorption. It consists predominantly of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C8 and boiling in the range of approximately minus 20°C to 120°C (-4°F to 248°F).]		8006-61-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha; Low boiling point naphtha; [Refined, partly refined, or unrefined petroleum products produced by the distillation of natural gas. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C6 and boiling in the range of approximately 100°C to 200°C (212°F to 392°F).]		8030-30-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Ligroine; Low boiling point naphtha; [A complex combination of hydrocarbons obtained by the fractional distillation of petroleum. This fraction boils in a range of approximately 20°C to 135°C (58°F to 275°F).]		8032-32-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).]		64741-41-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), full-range straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -20°C to 220°C (-4°F to 428°F).]		64741-42-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Naphtha (petroleum), light straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C10 and boiling in the range of approximately -20°C to 180°C (-4°F to 356°F).]		64741-46-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha; [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C5 through C10 and boiling in the range of approximately 35°C to 160°C (95°F to 320°F).]		64742-89-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), straight-run light; Low boiling point naphtha; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C2 through C7 and boiling in the range of approximately -88°C to 99°C (-127°F to 210°F).]		68410-05-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gasoline, vapor-recovery; Low boiling point naphtha; [A complex combination of hydrocarbons separated from the gases from vapor recovery systems by cooling. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -20°C to 196°C(-4°F to 384°F).]		68514-15-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gasoline, straight-run, topping-plant; Low boiling point naphtha; [A complex combination of hydrocarbons produced from the topping plant by the distillation of crude oil. It boils in the range of approximately 36.1°C to 193.3°C (97°F to 380°F).]		68606-11-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), unsweetened; Low boiling point naphtha; [A complex combination of hydrocarbons produced from the distillation of naphtha streams from various refinery processes. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C12 and boiling in the range of approximately 0°C to 230°C (25°F to 446°F).]		68783-12-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), light straight-run gasoline fractionation stabilizer overheads; Low boiling point naphtha; [A complex combination of hydrocarbons obtained by the fractionation of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C6.]		68921-08-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), heavy straight run, arom.-contg.; Low boiling point naphtha; [A complex combination of hydrocarbons obtained from a distillation process of crude petroleum. It consists predominantly of hydrocarbons having carbon numbers in the range of C8 through C12 and boiling in the range of approximately 130°C to 210°C (266°F to 410°F).]		101631-20-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), full-range alkylate; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 through C5 It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 220°C (194°F to 428°F).]		64741-64-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			



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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 to C5. It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C9 through C12 and boiling in the range of approximately 150°C to 220° C (302°F to 428°F).]		64741-65-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), light alkylate; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 through C5. It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C7 through C10 and boiling in the range of approximately 90°C to 160°C (194°F to 320°F).]		64741-66-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), isomerization; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained from catalytic isomerization of straight chain paraffinic C4 through C6 hydrocarbons. It consists predominantly of saturated hydrocarbons such as isobutane, isopentane, 2,2-dimethylbutane, 2-methylpentane, and 3-methylpentane.]		64741-70-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), solvent-refined light; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 35°C to 190°C (95°F to 374°F).]		64741-84-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), solvent-refined heavy; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F).]		64741-92-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Raffinates (petroleum), catalytic reformer ethylene glycol-water countercurrent exts.; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinate from the UDEX extraction process on the catalytic reformer stream. It consists of saturated hydrocarbons having carbon numbers predominantly in the range of C6 through C9.]		68410-71-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Raffinates (petroleum), reformer, Lurgi unit-sepd.; Low boiling point modified naphtha; [The complex combination of hydrocarbons obtained as a raffinate from a Lurgi separation unit. It consists predominantly of non-aromatic hydrocarbons with various small amounts of aromatic hydrocarbons having carbon numbers predominantly in the range of C6 through C8.]		68425-35-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA			
Naphtha (petroleum), light catalytic cracked; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -20°C to 190°C (-4°F to 374°F). It contains a relatively large proportion of unsaturated hydrocarbons.]		64741-55-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C3-11, catalytic cracker distillates; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillations of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C11 and boiling in a range approximately up to 204°C (400° F).]		68476-46-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Naphtha (petroleum), catalytic cracked light distd.; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]		68783-09-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Distillates (petroleum), naphtha steam cracking-derived, hydrotreated light arom.; Low boiling point cat-cracked naphtha.; [A complex combination of hydrocarbons obtained by treating a light distillate from steam-cracked naphtha. It consists predominantly of aromatic hydrocarbons.]		91995-50-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Naphtha (petroleum), heavy catalytic cracked, sweetened; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by subjecting a catalytic cracked petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 60°C to 200°C (140°F to 392°F).]		92045-50-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Naphtha (petroleum), light catalytic cracked sweetened; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by subjecting naphtha from a catalytic cracking process to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons boiling in a range of approximately 35°C to 210°C (95°F to 410°F).]		92045-59-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C8-12, catalytic-cracking, chem. neutralized; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of a cut from the catalytic cracking process, having undergone an alkaline washing. It consists predominantly of hydrocarbons having carbon numbers in the range of C8 through C12 and boiling in the range of approximately 130°C to 210°C (266°F to 410°F).]		92128-94-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C8-12, catalytic cracker distillates; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by distillation of products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C8 through C12 and boiling in the range of approximately 140°C to 210° C (284°F to 410°F).]		101794-97-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Naphtha (petroleum), full-range reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C12 and boiling in the range of approximately 35°C to 230°C (95°F to 446°F).]		68919-37-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Naphtha (petroleum), catalytic reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately 30°C to 220°C (90°F to 430°F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.]		68955-35-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Distillates (petroleum), catalytic reformed hydrotreated light, C8-12 arom. fraction; Low boiling point cat-reformed naphtha; [A complex combination of alkylbenzenes obtained by the catalytic reforming of petroleum naphtha. It consists predominantly of alkylbenzenes having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 160°C to 180°C (320°F to 356°F).]		85116-58-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Aromatic hydrocarbons, C8, catalytic reforming-derived; Low boiling point cat-reformed naphtha		91995-18-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Aromatic hydrocarbons, C7-12, C8-rich; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 (primarily C8) and can contain nonaromatic hydrocarbons, both boiling in the range of approximately 130°C to 200°C (266°F to 392°F).]		93571-75-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Gasoline, C5-11, high-octane stabilised reformed; Low boiling point cat-reformed naphtha; [A complex high octane combination of hydrocarbons obtained by the catalytic dehydrogenation of a predominantly naphthenic naphtha. It consists predominantly of aromatics and non-aromatics having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 45°C to 185°C (113°F to 365°F).]		93572-29-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Hydrocarbons, C7-12, C≥9-arom.-rich, reforming heavy fraction; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 120°C to 210°C (248°F to 380°F) and C9 and higher aromatic hydrocarbons.]		93572-35-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Hydrocarbons, C5-11, nonaroms.-rich, reforming light fraction; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 35°C to 125°C (94°F to 257°F), benzene and toluene.]		93572-36-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Foots oil (petroleum), silicic acid-treated; Foots oil; [A complex combination of hydrocarbons obtained by the treatment of Foots oil with silicic acid for removal of trace constituents and impurities. It consists predominantly of straight chain hydrocarbons having carbon numbers predominantly greater than C12.]		97862-77-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), light thermal cracked; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons from distillation of products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C4 through C8 and boiling in the range of approximately -10 °C to 130 °C (14 °F to 266 °F).]		64741-74-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), heavy thermal cracked; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons from distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 65°C to 220°C (148°F to 428°F).]		64741-83-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), heavy arom.; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This higher boiling fraction consists predominantly of C5-7 aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having carbon number predominantly of C5. This stream may contain benzene.]		67891-79-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), light arom.; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This lower boiling fraction consists predominantly of C5-7 aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having a carbon number predominantly of C5. This stream may contain benzene.]		67891-80-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), naphtha-raffinate pyrolyzate-derived, gasoline-blending; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons obtained by the pyrolysis fractionation at 816°C (1500°F) of naphtha and raffinate. It consists predominantly of hydrocarbons having a carbon number of C9 and boiling at approximately 204°C (400°F).]		68425-29-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Aromatic hydrocarbons, C6-8, naphtha-raffinate pyrolyzate-derived; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons obtained by the fractionation pyrolysis at 816°C (1500°F) of naphtha and raffinate. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C6 through C8, including benzene.]		68475-70-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), thermal cracked naphtha and gas oil; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by distillation of thermally cracked naphtha and/or gas oil. It consists predominantly of olefinic hydrocarbons having a carbon number of C5 and boiling in the range of approximately 33°C to 60°C (91°F to 140°F).]		68603-00-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			



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Distillates (petroleum), hydrotreated middle, intermediate boiling; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by the distillation of products from a middle distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C10 and boiling in the range of approximately 127°C to 188°C (262°F to 370°F).]		68410-96-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), light distillate hydrotreating process, low-boiling; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by the distillation of products from the light distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C9 and boiling in the range of approximately 3°C to 194°C (37°F to 382°F).]		68410-97-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), hydrotreated heavy naphtha, deisohexanizer overheads; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by distillation of the products from a heavy naphtha hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C6 and boiling in the range of approximately -49°C to 68°C (-57°F to 155°F).]		68410-98-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Solvent naphtha (petroleum), light arom., hydrotreated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]		68512-78-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), hydrodesulfurized thermal cracked light; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by fractionation of hydrodesulfurized thermal cracker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 to C11 and boiling in the range of approximately 23°C to 195°C (73°F to 383°F).]		85116-60-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), hydrotreated light, cycloalkane-contg.; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from the distillation of a petroleum fraction. It consists predominantly of alkanes and cycloalkanes boiling in the range of approximately -20°C to 190°C (-4°F to 374°F).]		85116-61-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), heavy steam-cracked, hydrogenated; Low boiling point hydrogen treated naphtha		92045-51-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), hydrodesulfurized full-range; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately 30°C to 250°C (86°F to 482°F).]		92045-52-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
Naphtha (petroleum), hydrotreated light steam-cracked; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction, derived from a pyrolysis process, with hydrogen in the presence of a catalyst. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 35°C to 190°C (95°F to 374°F).]		92045-57-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Hydrocarbons, C4-12, naphtha-cracking, hydrotreated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by distillation from the product of a naphtha steam cracking process and subsequent catalytic selective hydrogenation of gum formers. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately 30°C to 230°C (86°F to 446°F).]		92045-61-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Solvent naphtha (petroleum), hydrotreated light naphthenic; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of cycloparaffinic hydrocarbons having carbon numbers predominantly in the range of C6 through C7 and boiling in the range of approximately 73°C to 85°C (163°F to 185°F).]		92062-15-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Naphtha (petroleum), light steam-cracked, hydrogenated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons produced from the separation and subsequent hydrogenation of the products of a steam-cracking process to produce ethylene. It consists predominantly of saturated and unsaturated paraffins, cyclic paraffins and cyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C4 through C10 and boiling in the range of approximately 50°C to 200°C (122°F to 392°F). The proportion of benzene hydrocarbons may vary up to 30 wt. % and the stream may also contain small amounts of sulfur and oxygenated compounds.]		93165-55-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Hydrocarbons, C6-11, hydrotreated, dearomatized; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]		93763-33-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Hydrocarbons, C9-12, hydrotreated, dearomatized; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]		93763-34-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
stoddard solvent; Low boiling point naphtha - unspecified; [A colourless, refined petroleum distillate that is free from rancid or objectionable odours and that boils in a range of approximately 148,8 °C to 204,4 °C (300 °F to 400 °F).]		8052-41-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		
Natural gas condensates (petroleum); Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons separated as a liquid from natural gas in a surface separator by retrograde condensation. It consists mainly of hydrocarbons having carbon numbers predominantly in the range of C2 to C20. It is a liquid at atmospheric temperature and pressure.]		64741-47-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Natural gas (petroleum), raw liq. mix; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of saturated aliphatic hydrocarbons having carbon numbers in the range of C2 through C8.]		64741-48-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (petroleum), light hydrocracked; Low boiling naphtha - unspecified; [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C4 through C10, and boiling in the range of approximately -20°C to 180°C (-4°F to 356°F).]		64741-69-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (petroleum), heavy hydrocracked; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C6 through C12, and boiling in the range of approximately 65°C to 230°C (148°F to 446°F).]		64741-78-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (petroleum), sweetened; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately -10°C to 230°C (14°F to 446°F).]		64741-87-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (petroleum), acid-treated; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F).]		64742-15-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (petroleum), chemically neutralized heavy; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).]		64742-22-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (petroleum), chemically neutralized light; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -20°C to 190°C (-4°F to 374°F).]		64742-23-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Naphtha (petroleum), catalytic dewaxed; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from the catalytic dewaxing of a petroleum fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C12 and boiling in the range of approximately 35°C to 230°C (95°F to 446°F).]		64742-66-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Naphtha (petroleum), light steam-cracked; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by the distillation of the products from a steam cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F). This stream is likely to contain 10 vol. % or more benzene.]		64742-83-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]		64742-95-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Aromatic hydrocarbons, C6-10, acid-treated, neutralized; Low boiling point naphtha - unspecified		68131-49-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), C3-5, 2-methyl-2-butene-rich; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons from the distillation of hydrocarbons usually ranging in carbon numbers from C3 through C5, predominantly isopentane and 3-methyl-1-butene. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C3 through C5, predominantly 2-methyl-2-butene.]		68477-34-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), polymd. steam-cracked petroleum distillates, C5-12 fraction; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from the distillation of polymerized steam-cracked petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C12.]		68477-50-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), steam-cracked, C5-12 fraction; Low boiling point naphtha - unspecified; [A complex combination of organic compounds obtained by the distillation of products from a steam cracking process. It consists of unsaturated hydrocarbons having carbon numbers predominantly in the range of C5 through C12.]		68477-53-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), steam-cracked, C5-10 fraction, mixed with light steam-cracked petroleum naphtha C5 fraction; Low boiling point naphtha - unspecified		68477-55-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extracts (petroleum), cold-acid, C4-6; Low boiling point naphtha - unspecified; [A complex combination of organic compounds produced by cold acid unit extraction of saturated and unsaturated aliphatic hydrocarbons usually ranging in carbon numbers from C3 through C6, predominantly pentanes and amylenes. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers in the range of C4 through C6, predominantly C5.]		68477-61-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), depentanizer overheads; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from a catalytic cracked gas stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C6.]		68477-89-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Residues (petroleum), butane splitter bottoms; Low boiling point naphtha - unspecified; [A complex residuum from the distillation of butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C6.]		68478-12-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Residual oils (petroleum), deisobutanizer tower; Low boiling point naphtha - unspecified; [A complex residuum from the atmospheric distillation of the butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C6.]		68478-16-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), full-range coker; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons produced by the distillation of products from a fluid coker. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C4 through C15 and boiling in the range of approximately 43°C to 250°C (110°F-500°F).]		68513-02-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), steam-cracked middle arom.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons produced by the distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 130°C to 220°C (266°F to 428°F).]		68516-20-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), clay-treated full-range straight-run; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons resulting from treatment of full-range straight-run naphtha with natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -20°C to 220°C (-4°F to 429°F).]		68527-21-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), clay-treated light straight-run; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons resulting from treatment of light straight-run naphtha with a natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C10 and boiling in the range of approximately 93°C to 180°C (200°F to 356°F).]		68527-22-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), light steam-cracked arom.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C9 and boiling in the range of approximately 110°C to 165°C (230°F to 329°F).]		68527-23-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), light steam-cracked, debenzenized; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately 80°C to 218°C (176°F to 424°F).]		68527-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), arom.-contg.; Low boiling point naphtha - unspecified		68603-08-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Gasoline, pyrolysis, debutanizer bottoms; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists of hydrocarbons having carbon numbers predominantly greater than C5.]		68606-10-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), light, sweetened; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C3 through C6 and boiling in the range of approximately -20°C to 100°C (-4°F to 212°F).]		68783-66-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Natural gas condensates; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons separated and/or condensed from natural gas during transportation and collected at the wellhead and/or from the production, gathering, transmission, and distribution pipelines in deeps, scrubbers, etc. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C2 through C8.]		68919-39-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), naphtha unfiner stripper; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons produced by stripping the products from the naphtha unfiner. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]		68921-09-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), catalytic reformed light, arom.-free fraction; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons remaining after removal of aromatic compounds from catalytic reformed light naphtha in a selective absorption process. It consists predominantly of paraffinic and cyclic compounds having carbon numbers predominantly in the range of C5 to C8 and boiling in the range of approximately 66°C to 121°C (151°F to 250°F).]		85116-59-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gasoline; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons consisting primarily of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having carbon numbers predominantly greater than C3 and boiling in the range of 30°C to 260°C (86°F to 500°F).]		86290-81-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Aromatic hydrocarbons, C7-8, dealkylation products, distn. residues; Low boiling point naphtha - unspecified		90989-42-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C4-6, deparaffinizer lights, arom. hydrotreater; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained as first runnings from the deparaffinizer column before hydrotreatment of the aromatic charges. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C6, predominantly pentanes and pentenes, and boiling in the range of approximately 25°C to 40°C (77°F to 104°F).]		91995-38-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), heat-soaked steam-cracked naphtha, C5-rich; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by distillation of heat-soaked steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C4 through C6, predominantly C5.]		91995-41-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Extracts (petroleum), catalytic reformed light naphtha solvent; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained as the extract from the solvent extraction of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C8 and boiling in the range of approximately 100°C to 200°C (212°F to 392°F).]		91995-68-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), hydrodesulfurized light, dearomatized; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by distillation of hydrodesulfurized and dearomatized light petroleum fractions. It consists predominantly of C7 paraffins and cycloparaffins boiling in a range of approximately 90°C to 100°C (194°F to 212°F).]		92045-53-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), light, C5-rich, sweetened; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C5, predominantly C5, and boiling in the range of approximately minus 10°C to 35°C (14°F to 95°F).]		92045-60-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C8-11, naphtha-cracking, toluene cut; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by distillation from prehydrogenated cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C8 through C11 and boiling in the range of approximately 130°C to 205°C (266°F to 401°F).]		92045-62-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C4-11, naphtha-cracking, arom.-free; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from prehydrogenated cracked naphtha after distillative separation of benzene- and toluene-containing hydrocarbon cuts and a higher boiling fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately 30°C to 205°C (86°F to 401°F).]		92045-63-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Naphtha (petroleum), light heat-soaked, steam-cracked; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by the fractionation of steam cracked naphtha after recovery from a heat soaking process. It consists predominantly of hydrocarbons having a carbon number predominantly in the range of C4 through C6 and boiling in the range of approximately 0°C to 80°C (32°F to 176°F).]		92201-97-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), C6-rich; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from the distillation of a petroleum feedstock. It consists predominantly of hydrocarbons having carbon numbers of C5 through C7, rich in C6, and boiling in the range of approximately 60°C to 70°C (140°F to 158°F).]		93165-19-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Gasoline, pyrolysis, hydrogenated; Low boiling point naphtha-unspecified; [A distillation fraction from the hydrogenation of pyrolysis gasoline boiling in the range of approximately 20°C to 200°C (68°F to 392°F).]		94114-03-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Distillates (petroleum), steam-cracked, C8-12 fraction, polymd., distn. lights; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by distillation of the polymerized C8 through C12 fraction from steam-cracked petroleum distillates. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C12.]		95009-23-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum) heavy naphtha solvent, clay-treated; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by the treatment of heavy naphthic solvent petroleum extract with bleaching earth. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C6 through C10 and boiling in the range of approximately 80°C to 180°C (175°F to 356°F).]		97926-43-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), light steam-cracked, debenzenized, thermally treated; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by the treatment and distillation of debenzenized light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 95°C to 200°C (203°F to 392°F).]		98219-46-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), light steam-cracked, thermally treated; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by the treatment and distillation of light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C6 and boiling in the range of approximately 35°C to 80°C (95°F to 176°F).]		98219-47-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), C7-9, C8-rich, hydrodesulfurized dearomatized; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by the distillation of petroleum light fraction, hydrodesulfurized and dearomatized. It consists predominantly of hydrocarbons having carbon numbers in the range of C7 through C9, predominantly C8 paraffins and cycloparaffins, boiling in the range of approximately 120°C to 130°C (248°F to 266°F).]		101316-56-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Hydrocarbons, C6-8, hydrogenated sorption-dearomatized, toluene raffination; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained during the sorptions of toluene from a hydrocarbon fraction from cracked gasoline treated with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C6 through C8 and boiling in the range of approximately 80°C to 135°C (176°F to 275°F).]		101316-66-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphtha (petroleum), hydrodesulfurised full-range coker; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by fractionation from hydrodesulfurised coker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 to C11 and boiling in the range of approximately 23°C to 196°C (73°F to 385°F).]		101316-76-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA
Naphtha (petroleum), sweetened light; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C8 and boiling in the range of approximately 20°C to 130°C (68°F to 266°F).]		101795-01-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Hydrocarbons, C3-6, C5-rich, steam-cracked naphtha; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by distillation of steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C3 through C6, predominantly C5.]		102110-14-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Hydrocarbons, C5-rich, dicyclopentadiene-contg.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by distillation of the products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers of C5 and dicyclopentadiene and boiling in the range of approximately 30°C to 170°C (86°F to 338°F).]		102110-15-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Residues (petroleum), steam-cracked light, arom.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained by the distillation of the products of steam cracking or similar processes after taking off the very light products resulting in a residue starting with hydrocarbons having carbon numbers greater than C5. It consists predominantly of aromatic hydrocarbons having carbon numbers greater than C5 and boiling above approximately 40°C (104°F).]		102110-55-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Hydrocarbons, C≥5, C5-6-rich; Low boiling point naphtha - unspecified		68476-50-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Hydrocarbons, C5-rich; Low boiling point naphtha - unspecified		68476-55-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Aromatic hydrocarbons, C8-10; Low boiling point naphtha - unspecified		90989-39-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), light catalytic cracked; Cracked gasoil; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150 °C to 400 °C (302 °F to 752 °F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.]		64741-59-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), intermediate catalytic cracked; Cracked gasoil; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C30 and boiling in the range of approximately 205 °C to 450 °C (401 °F to 842 °F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.]		64741-60-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Distillates (petroleum), light thermal cracked; Cracked gasoil; [A complex combination of hydrocarbons from the distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C10 through C22 and boiling in the range of approximately 160 °C to 370 °C (320 °F to 698 °F).]		64741-82-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Distillates (petroleum), hydrodesulfurized light catalytic cracked; Cracked gasoil; [A complex combination of hydrocarbons obtained by treating light catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150 °C to 400 °C (302 °F to 752 °F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.]		68333-25-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●				
Distillates (petroleum), light steam-cracked naphtha; Cracked gasoil; [A complex combination of hydrocarbons from the multiple distillation of products from a steam cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C10 through C18.]		68475-80-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Distillates (petroleum), cracked steam-cracked petroleum distillates; Cracked gasoil; [A complex combination of hydrocarbons produced by distilling cracked steam cracked distillate and/or its fractionation products. It consists of hydrocarbons having carbon numbers predominantly in the range of C10 to low molecular weight polymers.]		68477-38-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Gas oils (petroleum), steam-cracked; Cracked gasoil; [A complex combination of hydrocarbons produced by distillation of the products from a steam cracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C9 and boiling in the range of from approximately 205 °C to 400 °C (400 °F to 752 °F).]		68527-18-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Distillates (petroleum), hydrodesulfurized thermal cracked middle; Cracked gasoil; [A complex combination of hydrocarbons obtained by fractionation from hydrodesulfurized thermal cracker distillate stocks. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C11 to C25 and boiling in the range of approximately 205 °C to 400 °C (401 °F to 752 °F).]		85116-53-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Gas oils (petroleum), thermal-cracked, hydrodesulfurized; Cracked gasoil		92045-29-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Residues (petroleum), hydrogenated steam-cracked naphtha; Cracked gasoil; [A complex combination of hydrocarbons obtained as a residual fraction from the distillation of hydrotreated steam-cracked naphtha. It consists predominantly of hydrocarbons boiling in the range of approximately 200 °C to 350 °C (32 °F to 662 °F).]		92062-00-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Residues (petroleum), steam-cracked naphtha distn.; Cracked gasoil; [A complex combination of hydrocarbons obtained as a column bottom from the separation of effluents from steam cracking naphtha at a high temperature. It boils in the range of approximately 147 °C to 300 °C (297 °F to 572 °F) and produces a finished oil having a viscosity of 18cSt at 50 °C.]		92062-04-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Distillates (petroleum), light catalytic cracked, thermally degraded; Cracked gasoil; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process which has been used as a heat transfer fluid. It consists predominantly of hydrocarbons boiling in the range of approximately 190 °C to 340 °C (374 °F to 644 °F). This stream is likely to contain organic sulfur compounds.]		92201-60-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Residues (petroleum), steam-cracked heat-soaked naphtha; Cracked gasoil; [A complex combination of hydrocarbons obtained as residue from the distillation of steam cracked heat soaked naphtha and boiling in the range of approximately 150 °C to 350 °C (302 °F to 662 °F).]		93763-85-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Gas oils (petroleum), light vacuum, thermal-cracked hydrodesulfurized; Cracked gasoil; [A complex combination of hydrocarbons obtained by catalytic dehydrodesulfurization of thermal-cracked light vacuum petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C14 through C20 and boiling in the range of approximately 270 °C to 370 °C (518 °F to 698 °F).]		97926-59-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrodesulfurized middle coker; Cracked gasoil; [A complex combination of hydrocarbons by fractionation from hydrodesulfurized coker distillate stocks. Is consists of hydrocarbons having carbon numbers predominantly in the range of C12 through C21 and boiling in the range of approximately 200 °C to 360 °C (392 °F to 680 °F).]		101316-59-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), heavy steam-cracked; Cracked gasoil; [A complex combination of hydrocarbons obtained by distillation of steam cracking heavy residues. It consists predominantly of highly alkylated heavy aromatic hydrocarbons boiling in the range of approximately 250 °C to 400 °C (482 °F to 752 °F).]		101631-14-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), heavy hydrocracked; Baseoil - unspecified; [A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C15-C39 and boiling in the range of approximately 260 °C to 600 °C (500 °F to 1112 °F).]		64741-76-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).]		64741-88-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent-refined light paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).]		64741-89-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residual oils (petroleum), solvent deasphalted; Baseoil - unspecified; [A complex combination of hydrocarbons obtained as the solvent soluble fraction from C3-C4 solvent deasphalting of a residuum. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400 °C (752 °F).]		64741-95-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Distillates (petroleum), solvent-refined heavy naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64741-96-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), solvent-refined light naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64741-97-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Residual oils (petroleum,) solvent-refined; Baseoil - unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400 °C (752 °F).]		64742-01-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), clay-treated paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]		64742-36-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), clay-treated light paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]		64742-37-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Residual oils (petroleum), clay-treated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treatment of a residual oil with a natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400 °C (752 °F).]		64742-41-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), clay-treated heavy naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-44-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Distillates (petroleum), clay-treated light naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-45-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-52-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-53-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]		64742-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]		64742-55-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).]		64742-56-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residual oils (petroleum), hydrotreated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400 °C (752 °F).]		64742-57-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Residual oils (petroleum), solvent-dewaxed; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by removal of long, branched chain hydrocarbons from a residual oil by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400 °C (752 °F).]		64742-62-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent-dewaxed heavy naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of not less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-63-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent-dewaxed light naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly in the range C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-64-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]		64742-65-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphthenic oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-68-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphthenic oils (petroleum), catalytic dewaxed light; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-69-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).]		64742-70-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA		
Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).]		64742-71-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphthenic oils (petroleum), complex dewaxed heavy; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by removing straight chain paraffin hydrocarbons as a solid by treatment with an agent such as urea. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil having a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-75-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Naphthenic oils (petroleum), complex dewaxed light; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil having a viscosity less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		64742-76-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil, and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil having a viscosity of approximately 112cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.]		72623-85-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating light vacuum gas oil and heavy vacuum gas oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil having a viscosity of approximately 15cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.]		72623-86-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of approximately 32cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.]		72623-87-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Lubricating oils; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from solvent extraction and dewaxing processes. It consists predominantly of saturated hydrocarbons having carbon numbers in the range C15 through C50.]		74869-22-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Distillates (petroleum), complex dewaxed heavy paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by dewaxing heavy paraffinic distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of equal to or greater than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		90640-91-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), complex dewaxed light paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by dewaxing light paraffinic distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C12 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]		90640-92-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent dewaxed heavy paraffinic, clay-treated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating dewaxed heavy paraffinic distillate with neutral or modified clay in either a contacting or percolation process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]		90640-94-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Hydrocarbons, C20-50, solvent dewaxed heavy paraffinic, hydrotreated; Baseoil - unspecified; [A complex combination of hydrocarbons produced by treating dewaxed heavy paraffinic distillate with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]		90640-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent dewaxed light paraffinic, clay-treated; Baseoil - unspecified; [A complex combination of hydrocarbons resulting from treatment of dewaxed light paraffinic distillate with natural or modified clay in either a contacting or percolation process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30.]		90640-96-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), solvent dewaxed light paraffinic, hydrotreated; Baseoil - unspecified; [A complex combination of hydrocarbons produced by treating a dewaxed light paraffinic distillate with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30.]		90640-97-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residual oils (petroleum), hydrotreated solvent dewaxed; Baseoil - unspecified		90669-74-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Residual oils (petroleum), catalytic dewaxed; Baseoil - unspecified		91770-57-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (petroleum), dewaxed heavy paraffinic, hydrotreated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from an intensive treatment of dewaxed distillate by hydrogenation in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C25 through C39 and produces a finished oil with a viscosity of approximately 44 cSt at 50 °C.]		91995-39-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA	
Distillates (petroleum), dewaxed light paraffinic, hydrotreated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from an intensive treatment of dewaxed distillate by hydrogenation in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C21 through C29 and produces a finished oil with a viscosity of approximately 13 cSt at 50 °C.]		91995-40-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●				
Distillates (petroleum), hydrocracked solvent-refined, dewaxed; Baseoil - unspecified; [A complex combination of liquid hydrocarbons obtained by recrystallization of dewaxed hydrocracked solvent-refined petroleum distillates.]		91995-45-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Distillates (petroleum), solvent-refined light naphthenic, hydrotreated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst and removing the aromatic hydrocarbons by solvent extraction. It consists predominantly of naphthenic hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of between 13-15cSt at 40 °C.]		91995-54-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified		92045-42-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Lubricating oils (petroleum), hydrocracked nonarom. solvent-deparaffined; Baseoil - unspecified		92045-43-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Residual oils (petroleum), hydrocracked acid-treated solvent-dewaxed; Baseoil - unspecified; [A complex combination of hydrocarbons produced by solvent removal of paraffins from the residue of the distillation of acid-treated, hydrocracked heavy paraffins and boiling approximately above 380 °C (716 °F).]		92061-86-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Paraffin oils (petroleum), solvent-refined dewaxed heavy; Baseoil - unspecified; [A complex combination of hydrocarbons obtained from sulfur-containing paraffinic crude oil. It consists predominantly of a solvent refined deparaffinated lubricating oil with a viscosity of 65cSt at 50 °C.]		92129-09-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Lubricating oils (petroleum), base oils, paraffinic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by refining of crude oil. It consists predominantly of aromatics, naphthenics and paraffinics and produces a finished oil with a viscosity of 120 SUS at 100 °F (23cSt at 40 °C).]		93572-43-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, hydrocracked paraffinic distn. residues, solvent-dewaxed; Baseoil - unspecified		93763-38-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Hydrocarbons, C20-50, residual oil hydrogenation vacuum distillate; Baseoil - unspecified		93924-61-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			
Distillates (petroleum), solvent-refined hydrotreated heavy, hydrogenated; Baseoil - unspecified		94733-08-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000															●			



5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Distillates (petroleum), solvent-refined hydrocracked light; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by solvent dearomatization of the residue of hydrocracked petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C27 and boiling in the range of approximately 370 °C to 450 °C (698 °F to 842 °F).]		94733-09-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Lubricating oils (petroleum), C18-40, solvent-dewaxed hydrocracked distillate-based; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by solvent deparaffination of the distillation residue from hydrocracked petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C40 and boiling in the range of approximately 370 °C to 550 °C (698 °F to 1022 °F).]		94733-15-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Lubricating oils (petroleum), C18-40, solvent-dewaxed hydrogenated raffinate-based; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by solvent deparaffination of the hydrogenated raffinate obtained by solvent extraction of a hydrotreated petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C40 and boiling in the range of approximately 370 °C to 550 °C (698 °F to 1022 °F).]		94733-16-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C13-30, arom.-rich, solvent-extd. naphthenic distillate; Baseoil - unspecified		95371-04-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C16-32, arom. rich, solvent-extd. naphthenic distillate; Baseoil - unspecified		95371-05-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C37-68, dewaxed deasphalted hydrotreated vacuum distn. residues; Baseoil - unspecified		95371-07-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Hydrocarbons, C37-65, hydrotreated deasphalted vacuum distn. residues; Baseoil - unspecified		95371-08-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), hydrocracked solvent-refined light; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by the solvent treatment of a distillate from hydrocracked petroleum distillates. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C27 and boiling in the range of approximately 370 °C to 450 °C (698 °F to 842 °F).]		97488-73-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Distillates (petroleum), solvent-refined hydrogenated heavy; Baseoil - unspecified; [A complex combination of hydrocarbons, obtained by the treatment of a hydrogenated petroleum distillate with a solvent. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C19 through C40 and boiling in the range of approximately 390 °C to 550 °C (734 °F to 1022 °F).]		97488-74-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			
Lubricating oils (petroleum), C18-27, hydrocracked solvent-dewaxed; Baseoil - unspecified		97488-95-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA			
Hydrocarbons, C17-30, hydrotreated solvent-deasphalted atm. distn. residue, distn. lights; Baseoil - unspecified; [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of a solvent deasphalted short residue with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C30 and boiling in the range of approximately 300 °C to 400 °C (572 °F to 752 °F). It produces a finished oil having a viscosity of 4cSt at approximately 100 °C (212 °F).]		97675-87-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C17-40, hydrotreated solvent-deasphalted distn. residue, vacuum distn. lights; Baseoil - unspecified; [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the catalytic hydrotreatment of a solvent deasphalted short residue having a viscosity of 8cSt at approximately 100 °C (212 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C40 and boiling in the range of approximately 300 °C to 500 °C (592 °F to 932 °F).]		97722-06-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C13-27, solvent-extd. light naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 9.5cSt at 40 °C (104 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C13 through C27 and boiling in the range of approximately 240 °C to 400 °C (464 °F to 752 °F).]		97722-09-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C14-29, solvent-extd. light naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 16cSt at 40 °C (104 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C14 through C29 and boiling in the range of approximately 250 °C to 425 °C (482 °F to 797 °F).]		97722-10-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C27-42, dearomatized; Baseoil - unspecified		97862-81-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C17-30, hydrotreated distillates, distn. lights; Baseoil - unspecified		97862-82-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C27-45, naphthenic vacuum distn.; Baseoil - unspecified		97862-83-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C27-45, dearomatized; Baseoil - unspecified		97926-68-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C20-58, hydrotreated; Baseoil - unspecified		97926-70-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hydrocarbons, C27-42, naphthenic; Baseoil - unspecified		97926-71-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Residual oils (petroleum), carbon-treated solvent-dewaxed; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by the treatment of solvent-dewaxed petroleum residual oils with activated charcoal for the removal of trace polar constituents and impurities.]		100684-37-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Residual oils (petroleum), clay-treated solvent-dewaxed; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treatment of solvent-dewaxed petroleum residual oils with bleaching earth for the removal of trace polar constituents and impurities.]		100684-38-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				

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Lubricating oils (petroleum), C >25, solvent-extd., deasphalted, dewaxed, hydrogenated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of vacuum distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C25 and produces a finished oil with a viscosity in the order of 32cSt to 37cSt at 100 °C (212 °F).]		101316-69-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Lubricating oils (petroleum), C17-32, solvent-extd., dewaxed, hydrogenated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C32 and produced a finished oil with a viscosity in the order of 17cSt to 23cSt at 40 °C (104 °F).]		101316-70-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Lubricating oils (petroleum), C20-35, solvent-extd., dewaxed, hydrogenated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C35 and produces a finished oil with a viscosity in the order of 37cSt to 44cSt at 40 °C (104 °F).]		101316-71-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C24 through C50 and produces a finished oil with a viscosity in the order of 16cSt to 75cSt at 40 °C (104 °F).]		101316-72-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), heavy naphthenic distillate solvent, arom. conc.; Distillate aromatic extract (treated); [An aromatic concentrate produced by adding water to heavy naphthenic distillate solvent extract and extraction solvent.]		68783-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), solvent-refined heavy paraffinic distillate solvent; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained as the extract from the re-extraction of solvent-refined heavy paraffinic distillate. It consists of saturated and aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]		68783-04-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), heavy paraffinic distillates, solvent-deasphalted; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained as the extract from a solvent extraction of heavy paraffinic distillate.]		68814-89-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), heavy naphthenic distillate solvent, hydrotreated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained by treating a heavy naphthenic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 19cSt at 40 °C (100 SUS at 100 °F).]		90641-07-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

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Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Extracts (petroleum), heavy paraffinic distillate solvent, hydrotreated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons produced by treating a heavy paraffinic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C21 through C33 and boiling in the range of approximately 350 °C to 480 °C (662 °F to 896 °F).]		90641-08-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extracts (petroleum), light paraffinic distillate solvent, hydrotreated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons produced by treating a light paraffinic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C26 and boiling in the range of approximately 280 °C to 400 °C (536 °F to 752 °F).]		90641-09-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extracts (petroleum), hydrotreated light paraffinic distillate solvent; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained as the extract from solvent extraction of intermediate paraffinic top solvent distillate that is treated with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C36.]		91995-73-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extracts (petroleum), light naphthenic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained by treating the extract, obtained from a solvent extraction process, with hydrogen in the presence of a catalyst under conditions primarily to remove sulfur compounds. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C15 through C30. This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]		91995-75-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extracts (petroleum), light paraffinic distillate solvent, acid-treated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained as a fraction of the distillation of an extract from the solvent extraction of light paraffinic top petroleum distillates that is subjected to a sulfuric acid refining. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C32.]		91995-76-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			
Extracts (petroleum), light paraffinic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained by solvent extraction of a light paraffin distillate and treated with hydrogen to convert the organic sulfur to hydrogen sulfide which is eliminated. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C40 and produces a finished oil with a viscosity of greater than 10cSt at 40 °C.]		91995-77-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000														•			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA		
Extracts (petroleum), light vacuum gas oil solvent, hydrotreated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons, obtained by solvent extraction from light vacuum petroleum gas oils and treated with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C13 through C30.]		91995-79-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), heavy paraffinic distillate solvent, clay-treated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contact or percolation process to remove the trace amounts of polar compounds and impurities present. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C50. This stream is likely to contain 5 wt.% or more 4-6 membered ring aromatic hydrocarbons.]		92704-08-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), heavy naphthenic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C50 and produces a finished oil with a viscosity of greater than 19cSt at 40 °C.]		93763-10-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), solvent-dewaxed heavy paraffinic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained from a solvent dewaxed petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C50 and produces a finished oil with a viscosity of greater than 19cSt at 40 °C.]		93763-11-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), light paraffinic distillate solvent, carbon-treated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained as a fraction from distillation of an extract recovered by solvent extraction of light paraffinic top petroleum distillate treated with activated charcoal to remove traces of polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C32.]		100684-02-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Extracts (petroleum), light paraffinic distillate solvent, clay-treated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained as a fraction from distillation of an extract recovered by solvent extraction of light paraffinic top petroleum distillates treated with bleaching earth to remove traces of polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C32.]		100684-03-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA			
Extracts (petroleum), light vacuum, gas oil solvent, carbon-treated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained by solvent extraction of light vacuum petroleum gas oil treated with activated charcoal for the removal of trace polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C13 through C30.]		100684-04-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Extracts (petroleum), light vacuum gas oil solvent, clay-treated; Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained by solvent extraction of light vacuum petroleum gas oils treated with bleaching earth for removal of trace polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C13 through C30.]		100684-05-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Foots oil (petroleum); Foots oil; [A complex combination of hydrocarbons obtained as the oil fraction from a solvent deoiling or a wax sweating process. It consists predominantly of branched chain hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]		64742-67-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Foots oil (petroleum), hydrotreated; Foots oil		92045-12-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
erionite		12510-42-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in CLP Annex; [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18 % by weight]		-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
2,4,6-Trichloro-p-terphenyl	2,4,6-トリクロロ-p-ターフェニール	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
2,3,5,6-Tetrachloro-p-terphenyl	2,3,5,6-テトラクロロ-p-ターフェニール	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
2,4,4',6-Tetrachloro-p-terphenyl	2,4,4',6-テトラクロロ-p-ターフェニール	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
2,3,4,5,6-Pentachloro-p-terphenyl	2,3,4,5,6-ペンタクロロ-p-ターフェニール	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
1,2,3,4-Tetrachloro-5-(2,3-dichlorophenyl)-6-phenylbenzene	1,2,3,4-テトラクロロ-5-(2,3-ジクロロフェニール)-6-フェニールベンゼン	95385-87-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Terphenyl,nonachloro- (9CI)		38890-58-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
2,2-dichloroethanol		598-38-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Dichloromethoxymethane		4885-02-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
2-Chloroethanol	2-クロロエタノール	107-07-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
2-aminoacetamide		598-41-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Methylurea	メチル尿素	598-50-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Acetohydrazide		1068-57-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Hexachlorocyclobutene		6130-82-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				
Perchlorobuta-1,2-diene	ペルクロロブタ-1,2-ジエン	56827-79-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Management classification	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	POPs Convention	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	TSCA	
2,2,2,0,p'-pentachloroethylidenebisbenzene		789-02-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•			
N-Phenyl-1,4-phenylenediamine	N-フェニル-1,4-フェニレンジアミン	101-54-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
N,N-diphenylhydrazine		530-50-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
N-phenyl-o-phenylenediamine		534-85-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
2,2'-dimethyl-4,4'-bipyridine		712-61-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
4,4'-dimethyl-2,2'-bipyridyl		1134-35-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Biphenyl-2,2'-diamine	フェニル-2,2'-ジアミン	1454-80-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
6,7-Dihydropyridino[1,2-a:2',1'-c]pyrazine-5,8-dium	6,7-ジヒドロピリジノ[1,2-a:2',1'-c]ピラジン-5,8-ジウム	2764-72-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
N-phenylpyridine-2-methylamine		4329-81-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
6,6'-dimethyl-2,2'-bipyridine		4411-80-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
4,4'-ethylenedipyrindine		4916-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
N-benzylpyridin-2-amine		6935-27-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Biphenyl-2,4-ylenediamine		16069-32-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
1,4,5,6-tetrahydro-3-phenylcyclopentapyrazole		28749-00-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
4-(1,1-dimethylethyl)benzene-1,2-dicarbonitrile		32703-80-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
6-benzylpyridin-2-amine		57963-09-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer		28182-81-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Butanoic acid, 3-oxo-, ethyl ester, reaction products with 1,6-diisocyanato-2,2,4-trimethylhexane homopolymer		74665-06-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, Me Et ketone oxime-blocked		85940-94-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked		125252-47-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me ether-blocked		160994-68-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, 3,5-dimethyl-1H-pyrazole-blocked		163206-31-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol monostearyl ether-blocked		164383-24-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, di-Et malonate-and N-(1-methylethyl)-2-propanamine-blocked		208408-04-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, 3-(trimethoxysilyl)-1-propanethiol-blocked		252047-49-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		
Hexane, 1,6-diisocyanato-, homopolymer, 3,5-dimethyl-1H-pyrazole- and polyethylene glycol mono-Me ether-blocked		262603-67-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																•		

5. List of NSK Environmentally Harmful Substances (details)

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) p p m	2022 GADSL Managem ent classificati on	IEC62474 D24.00	REACH SVHC ~27th	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleteriou s Substance s Control Act Specified Poisons	POPs Conventio n	CLP Regulations Annex VI Table 3.2 List of Carcinogenic and/or Mutagenic (CMR) Substances (Category 1&2)	Prohibition of Certain Toxic Substances Regulations , 2012 (Canada)	Proposition 65: Safe Drinking Water and Toxic Enforceme nt Act of 1986 (California state law)	TSCA
Hexane, 1,6-diisocyanato-, homopolymer, 2-hydroxyethyl acrylate-blocked		264888-31-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,6-diisocyanato-2,2,4-trimethylhexane and 1,6-diisocyanato-2,4,4-trimethylhexane, 2-oxepanone homopolymer 2-[(1-oxo-2-propen-1-yl)oxy]ethyl ester-blocked		327619-39-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Hexane, 1,6-diisocyanato-, homopolymer, di-Et malonate-blocked		386708-06-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Hexane, 1,6-diisocyanato-, homopolymer, di-Et malonate- and 3,5-dimethyl-1H-pyrazole-blocked		1246042-44-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Hexane, 1,6-diisocyanato-, homopolymer, 2-oxepanone homopolymer 2-[(1-oxo-2-propen-1-yl)oxy]ethyl ester- and propylene glycol monoacrylate-blocked		1256265-83-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Hexane, 1,6-diisocyanato-, homopolymer, .alpha.-1-[[[3-[[3-(dimethylamino)propyl]amino]propyl]amino]carbonyl]-1,2,2,2-tetrafluoroethyl]-.omega.-(1,1,2,2,3,3,3-heptafluoropropoxy)poly[oxy(trifluoromethyl)-1,2-ethanediyl]-blocked		1279108-20-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Hexane, 1,6-diisocyanato-, homopolymer, 2-hydroxyethyl acrylate- and propylene glycol monoacrylate-blocked		1392411-89-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Propane-1,2-diol	プロパン-1,2-ジオール	57-55-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Dimethoxymethane	ジメトキシメタン	109-87-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Propane-1,3-diol	プロパン-1,3-ジオール	504-63-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
(R)-Propane-1,2-diol	(R)-プロパン-1,2-ジオール	4254-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
(S)-Propane-1,2-diol	(S)-プロパン-1,2-ジオール	4254-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Ethoxymethanol		10171-38-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Propanediol	プロパンジオール	26264-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
Methoxyethanol		32718-54-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
1,2,3,4(or 1,2,4,5)-tetrachlorobenzene		84713-12-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000															•		
2-Butenoic acid, 4-[(2-ethylhexyl)amino]-4-oxo-, (2Z)-, compd. with 2,2',2''-nitritotris[ethanol] (1:1)	(Z)-4-[(2-エチルヘキシル)アミノ]-4-オキソブチ酸 / 2,2,2''-ニトロトリエタノール(1:1)	85204-21-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	•
Mixed mono and diamides of an organic acid	有機酸のモノ/ジ/テトラアミド混合物	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	•
Triethanolamine salt of a substituted organic acid	置換有機酸トリエタノールアミン塩	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	•
Triethanolamine salt of tricarboxylic acid	トリカルボキシ酸トリエタノールアミン塩	-	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	•
PCTP (Pentachlorothiophenol)		133-49-3	Prohibited	Mixtures, formed Products	10000																	•



6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Reduced	Arsenic acid (H <sub>3</sub> AsO <sub>4</sub> ), monosodium salt		10103-60-3	REACH AnnexXV II Restricted Substances
Reduced	Arsenic acid (H <sub>3</sub> AsO <sub>4</sub> ), lead(2+) salt (2:3), tetrahydrate		120119-64-4	REACH AnnexXV II Restricted Substances
Reduced	arsenic acid (H <sub>3</sub> AsO <sub>4</sub> ), calcium salt(2:3), dihydrate		30621-31-9	REACH AnnexXV II Restricted Substances
Reduced	Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), magnesium manganese(2+) zinc salt, arsenic and lead-doped		68784-76-9	REACH AnnexXV II Restricted Substances
Reduced	Arsenic acid (H <sub>3</sub> AsO <sub>4</sub> ), copper(2+) salt (2:3)		76407-89-1	REACH AnnexXV II Restricted Substances
Reduced	arsenic acid, calcium salt		89054-07-9	REACH AnnexXV II Restricted Substances
Reduced	Arsenous acid, tricopper(1+) salt, ammoniated		37337-11-4	REACH AnnexXV II Restricted Substances
Reduced	Arsenic tetrasulfide		56729-51-2	REACH AnnexXV II Restricted Substances
Reduced	Arsonic acid, monoammonium salt		54058-01-4	REACH AnnexXV II Restricted Substances
Reduced	Tetraarsenic trisulfide		12512-13-9	REACH AnnexXV II Restricted Substances
Reduced	[No public or meaningful name is available]		16973-45-8	REACH AnnexXV II Restricted Substances
Reduced	Arsenic tetrachloride fluoride		87198-15-0	REACH AnnexXV II Restricted Substances
Reduced	Arsonic acid, lead(2+) salt (1:1)		109882-46-4	REACH AnnexXV II Restricted Substances
Reduced/ Observation	1H-Pyrazole-4-carboxamide, N-[2-(1,3-dimethylbutyl)phenyl]-5-fluoro-1,3-dimethyl-		494793-67-8	REACH AnnexXV II Restricted Substances
Prohibited	Lead chlorate		10294-47-0	REACH AnnexXV II Restricted Substances
Prohibited	Lead hydroxide (Pb(OH))		108350-80-7	REACH AnnexXV II Restricted Substances
Prohibited	2',4',5',7'-Tetrabromofluorescein lead salt		51868-24-7	REACH AnnexXV II Restricted Substances
Prohibited	Hexafluorosilicate(2-), lead(2+) (1:1), tetrahydrate		83689-82-1	REACH AnnexXV II Restricted Substances
Prohibited	Lead dichlorite		13453-57-1	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Lead chloride (PbCl)		13931-84-5	REACH AnnexXV II Restricted Substances
Prohibited	Lead sulfide		39377-56-5	REACH AnnexXV II Restricted Substances
Prohibited	Dilead dioxide		35229-41-5	REACH AnnexXV II Restricted Substances
Prohibited	Lead fluoride (VAN)		53096-04-1	REACH AnnexXV II Restricted Substances
Prohibited	Plumbylium, ethyldimethyl-		103730-90-1	REACH AnnexXV II Restricted Substances
Prohibited	Plumbylium, diethylmethyl-		105956-70-5	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, tributylchloro-		13302-14-2	REACH AnnexXV II Restricted Substances
Prohibited	Lead bromide chloride		13778-36-4	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, chlorotripropyl-		1520-71-4	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, dichlorodimethyl-		1520-77-0	REACH AnnexXV II Restricted Substances
Prohibited	Lead, diacetoxydiethyl- (7CI)		15773-47-4	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, (4-bromobutyl)triphenyl-		16035-34-0	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, (4-azidobutyl)triphenyl-		16035-39-5	REACH AnnexXV II Restricted Substances
Prohibited	1H-Imidazole, 1-(tributylplumbyl)-		16128-42-0	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, bis(methacryloyloxy)dimethyl-		22515-48-6	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, bis(acetyloxy)dibutyl-		2587-84-0	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, tris(acetyloxy)phenyl-		3076-54-8	REACH AnnexXV II Restricted Substances
Prohibited	[Nitrooxy(diphenyl)plumbyl] nitrate		41825-28-9	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, triethyl[[[4-methylphenyl)sulfonyl]oxy]-		43135-86-0	REACH AnnexXV II Restricted Substances
Prohibited	9H-Carbazole, 9-(triphenylplumbyl)-		56240-91-6	REACH AnnexXV II Restricted Substances
Prohibited	1H-Indole, 1-(triphenylplumbyl)-		56240-92-7	REACH AnnexXV II Restricted Substances
Prohibited	1H-Pyrrole, 1-(triphenylplumbyl)-		56240-93-8	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Plumbane, butyltrimethyl-		54964-75-9	REACH AnnexXV II Restricted Substances
Prohibited	Lead diphenyl acid propionate		56764-40-0	REACH AnnexXV II Restricted Substances
Prohibited	Butyl-ethyl-dimethylplumbane		65122-14-7	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, tripropyl-		6618-03-7	REACH AnnexXV II Restricted Substances
Prohibited	Lead, triethyl-, oleate		63916-98-3	REACH AnnexXV II Restricted Substances
Prohibited	Butyl(triethyl)plumbane		64346-32-3	REACH AnnexXV II Restricted Substances
Prohibited	Butyl-diethyl-methylplumbane		65122-13-6	REACH AnnexXV II Restricted Substances
Prohibited	1H-Isoindole-1,3(2H)-dione, 4,5,6, 7-tetrachloro-2-(triethylplumbyl)-		73928-23-1	REACH AnnexXV II Restricted Substances
Prohibited	Trimethyl lead		7442-13-9	REACH AnnexXV II Restricted Substances
Prohibited	1H-1,2,3-Triazole-5-methanol, .alpha.,.alpha.-dimethyl-1-[4-(triphenylplumbyl)butyl]-		73826-06-9	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, [(4-aminobenzoyl)oxy]triethyl-		73928-17-3	REACH AnnexXV II Restricted Substances
Prohibited	Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), lead(2 ) salt		15804-54-3	REACH AnnexXV II Restricted Substances
Prohibited	Plumbylium, trimethyl-		14570-16-2	REACH AnnexXV II Restricted Substances
Prohibited	Diethyllead		24952-65-6	REACH AnnexXV II Restricted Substances
Prohibited	Acetic acid, fluoro-, triethyllead salt		562-95-8	REACH AnnexXV II Restricted Substances
Prohibited	Lead strontium titanium zirconium oxide		153679-91-5	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, dibutyldiethyl-		65121-94-0	REACH AnnexXV II Restricted Substances
Prohibited	Resin acids and Rosin acids, calcium salts, polymers with lead resinates and sapond. linseed oil		68139-27-5	REACH AnnexXV II Restricted Substances
Prohibited	Carboxylic acids, tall-oil, lead salts, basic		68603-93-0	REACH AnnexXV II Restricted Substances
Prohibited	Acetic acid, reaction products with capric acid, carpylic acid, coconut oil, and hydrogenated tallow fatty acids, calcium, lead salts		68784-59-8	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Gum rosin, litharge polymer		68952-91-0	REACH AnnexXV II Restricted Substances
Prohibited	Basic lead beta-resorcylate		68954-05-2	REACH AnnexXV II Restricted Substances
Prohibited	Gilsonite, polymer with cyclopentadiene, dicyclopentadiene and linseed oil, lead salts		68956-49-0	REACH AnnexXV II Restricted Substances
Prohibited	Barium bismuth lead niobium titanium oxide		68987-33-7	REACH AnnexXV II Restricted Substances
Prohibited	Acetic acid, capric acid, caprylic acid, coconut oil, hydrogenated tallow fatty acids, calcium-lead complex salt		69103-04-4	REACH AnnexXV II Restricted Substances
Prohibited	Dehydrated castor oil fatty acids, glycerine, C36 fatty acid dimers, litharge polymer		70879-91-3	REACH AnnexXV II Restricted Substances
Prohibited	Silicic acid (H6Si2O7), barium zinc salt (1:1:2), lead-doped		71799-66-1	REACH AnnexXV II Restricted Substances
Prohibited	Octadecanoic acid, barium lead salt		73105-55-2	REACH AnnexXV II Restricted Substances
Prohibited	Bismuth alloy, Bi 50,Pb 25,Cd 12,Sn 12 (L-pbbi50Sn12.5Cd12.5)		76093-98-6	REACH AnnexXV II Restricted Substances
Prohibited	2-[carboxylatomethyl(carboxymethyl)amino]acetate;lead(2+)		79849-02-8	REACH AnnexXV II Restricted Substances
Prohibited	Glycine, N,N-bis(carboxymethyl)-, lead(2+) potassium salt (1:1:1)		79915-08-5	REACH AnnexXV II Restricted Substances
Prohibited	2-[bis(carboxylatomethyl)amino]acetate;lead(2+)		79915-09-6	REACH AnnexXV II Restricted Substances
Prohibited	Boric acid (H3BO3), lead(2+) salt (2:3)		91388-81-7	REACH AnnexXV II Restricted Substances
Prohibited	Chromic acid (H2CrO4), lead(2+) sodium salt (2:1:2)		93215-61-3	REACH AnnexXV II Restricted Substances
Prohibited	Methanesulfonic acid, lead salt		95860-12-1	REACH AnnexXV II Restricted Substances
Prohibited	Lanthanum lead titanium zirconium oxide		1227908-26-0	REACH AnnexXV II Restricted Substances
Prohibited	Benzoic acid, 4-methyl-, lead(4+) salt		15516-84-4	REACH AnnexXV II Restricted Substances
Prohibited	Phenol, lead(2+) salt (2:1)		20534-94-5	REACH AnnexXV II Restricted Substances
Prohibited	Phenol, lead salt		25987-03-5	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Benzoic acid, methyl-, lead(2+) salt		27496-91-9	REACH AnnexXV II Restricted Substances
Prohibited	Tetracosanoic acid, lead(2+) salt		28267-01-8	REACH AnnexXV II Restricted Substances
Prohibited	Lead, bis[bis(1-methylethyl)carbomodithioato-S,S']-, (T-4)-		30051-53-7	REACH AnnexXV II Restricted Substances
Prohibited	Benzoic acid, 3-methyl-, lead(4+) salt		34295-32-4	REACH AnnexXV II Restricted Substances
Prohibited	Nonanoic acid, lead salt		41234-07-5	REACH AnnexXV II Restricted Substances
Prohibited	Benzoic acid, 2-methyl-, lead(2+) salt		52337-73-2	REACH AnnexXV II Restricted Substances
Prohibited	Plumbate(1-), [N,N-bis(carboxymethyl)glycinato(3--N,O,O',O'')]-, sodium, (T-4)-		53113-58-9	REACH AnnexXV II Restricted Substances
Prohibited	Benzoic acid, 4-methyl-, lead(2+) salt		58274-53-6	REACH AnnexXV II Restricted Substances
Prohibited	UNDECANSAEURE-PB(II)-SALZ		63400-07-7	REACH AnnexXV II Restricted Substances
Prohibited	Nonanoic acid, lead(2+) salt		63400-08-8	REACH AnnexXV II Restricted Substances
Prohibited	Lead, bis[bis(2-methylpropyl)carbomodithioato-S,S']-, (T-4)-		69090-73-9	REACH AnnexXV II Restricted Substances
Prohibited	9-Octadecenoic acid, lead(2+) salt, (E)-		69637-83-8	REACH AnnexXV II Restricted Substances
Prohibited	Lead, bis(dipropylcarbomodithioato-S,S')-, (T-4)-		70995-63-0	REACH AnnexXV II Restricted Substances
Prohibited	Ethanesulfonic acid, 2-hydroxy-, lead(2+) salt (2:1)		72437-77-5	REACH AnnexXV II Restricted Substances
Prohibited	22-Tricosenoic acid, lead(2+) salt		76835-98-8	REACH AnnexXV II Restricted Substances
Prohibited	Benzoic acid, 2-methyl-, lead salt		76925-97-8	REACH AnnexXV II Restricted Substances
Prohibited	Pentanoic acid, 2-propyl-, lead(2+) salt		87835-32-3	REACH AnnexXV II Restricted Substances
Prohibited	Benzenesulfonic acid, hydroxy-, lead salt		82696-30-8	REACH AnnexXV II Restricted Substances
Prohibited	Benzoic acid, 2-butyl, lead(2+) salt		91187-55-2	REACH AnnexXV II Restricted Substances
Prohibited	1-Propanesulfonic acid, 2-hydroxy-, lead(2+) salt (2:1)		103427-19-6	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	1-Propanesulfonic acid, 2-hydroxy-, lead salt		114601-64-8	REACH AnnexXV II Restricted Substances
Prohibited	2-Propanesulfonic acid, 1-hydroxy-, lead salt		133988-90-6	REACH AnnexXV II Restricted Substances
Prohibited	p-tert-Butylbenzoic acid lead salt		3249-60-3	REACH AnnexXV II Restricted Substances
Prohibited	Lead sulfite		25666-92-6	REACH AnnexXV II Restricted Substances
Prohibited	Calcines, lead-zinc ore conc.		94551-62-9	REACH AnnexXV II Restricted Substances
Prohibited	Fumes, lead		94551-66-3	REACH AnnexXV II Restricted Substances
Prohibited	Leach residues, copper-lead		94551-72-1	REACH AnnexXV II Restricted Substances
Prohibited	Matte, copper-lead		94551-74-3	REACH AnnexXV II Restricted Substances
Prohibited	Residues, lead smelting wastewater treatment		94551-78-7	REACH AnnexXV II Restricted Substances
Prohibited	Residues, lead-zinc smelting wastewater treatment		94551-79-8	REACH AnnexXV II Restricted Substances
Prohibited	Wastes, lead battery reprocessing		94551-99-2	REACH AnnexXV II Restricted Substances
Prohibited	Waste solids, lead silver anode		94552-05-3	REACH AnnexXV II Restricted Substances
Prohibited	Slimes and Sludges, lead acetate manuf.		96690-46-9	REACH AnnexXV II Restricted Substances
Prohibited	Ferrite substances, magnetoplumbite-type, barium-cobalt-titanium		97488-85-2	REACH AnnexXV II Restricted Substances
Prohibited	Magnetoplumbite, barium titanium zinc brown		97675-41-7	REACH AnnexXV II Restricted Substances
Prohibited	Matte, precious metal		98072-52-7	REACH AnnexXV II Restricted Substances
Prohibited	Slimes and Sludges, precious metal refining		98072-61-8	REACH AnnexXV II Restricted Substances
Prohibited	Matte, copper-lead, tellurium-contg.		100656-53-9	REACH AnnexXV II Restricted Substances
Prohibited	Phosphoric acid, calcium salt (1:1), solid soln. with calcium chloride, calcium fluoride, calcium oxide, phosphorus oxide (P2O5) and strontium oxide, lead and manganese-doped		102047-25-6	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Barium oxide (BaO), solid soln. with calcium oxide, strontium oxide and tungsten oxide (WO <sub>3</sub> ), lead-doped		102110-24-7	REACH AnnexXVII Restricted Substances
Prohibited	Boric acid (H <sub>3</sub> BO <sub>3</sub> ), solid soln. with barium oxide, calcium oxide and strontium oxide, lead and manganese-doped		102110-26-9	REACH AnnexXVII Restricted Substances
Prohibited	Lead ores, concs., leached		102110-48-5	REACH AnnexXVII Restricted Substances
Prohibited	Residues, precious metal refining cementation		102110-50-9	REACH AnnexXVII Restricted Substances
Prohibited	Slimes and Sludges, battery scrap, antimony- and lead-rich		102110-60-1	REACH AnnexXVII Restricted Substances
Prohibited	barium calcium cesium lead samarium strontium bromide chloride fluoride iodide europium doped		199876-46-5	REACH AnnexXVII Restricted Substances
Prohibited	Acetic acid, oleic acid, candelilla wax, tallow, calcium-lead complex salt		69103-03-3	REACH AnnexXVII Restricted Substances
Prohibited	Plumbane dichlorodiethyl-		13231-90-8	REACH AnnexXVII Restricted Substances
Prohibited	Lead uranate pigment		85536-79-4	REACH AnnexXVII Restricted Substances
Prohibited	Leach residues, zinc ore, lead-contg.		91053-49-5	REACH AnnexXVII Restricted Substances
Prohibited	Slags, lead-zinc smelting		93763-87-2	REACH AnnexXVII Restricted Substances
Prohibited	Flue gases, lead-zinc blast furnace		93821-47-7	REACH AnnexXVII Restricted Substances
Prohibited	Slimes and Sludges, lead-zinc blast furnace, offgas wet cleaning		93821-70-6	REACH AnnexXVII Restricted Substances
Prohibited	Ferrate (2-), [N,N-bis[2-(bis(carboxymethyl)amino)ethyl]glycinate (5-)]-, disodium		12565-18-3	REACH AnnexXVII Restricted Substances
Prohibited	Boric acid, lead salt		12676-62-9	REACH AnnexXVII Restricted Substances
Prohibited	Chromic acid lead salt with lead molybdate		12709-98-7	REACH AnnexXVII Restricted Substances
Prohibited	Ethanedioic acid, lead(2+) salt (1:1), trihydrate		128226-81-3	REACH AnnexXVII Restricted Substances
Prohibited	Lead hydroxide oxide (Pb <sub>2</sub> (OH) <sub>2</sub> O)		1311-11-1	REACH AnnexXVII Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Carbonic acid, lead salt		13427-42-4	REACH AnnexXV II Restricted Substances
Prohibited	Chloric acid, lead(2+) salt, monohydrate		13510-96-8	REACH AnnexXV II Restricted Substances
Prohibited	Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), lead(2+) potassium salt (2:1:2)		13845-31-3	REACH AnnexXV II Restricted Substances
Prohibited	205Pb		14119-28-9	REACH AnnexXV II Restricted Substances
Prohibited	209Pb		14119-30-3	REACH AnnexXV II Restricted Substances
Prohibited	210Pb		14255-04-0	REACH AnnexXV II Restricted Substances
Prohibited	203Pb		14687-25-3	REACH AnnexXV II Restricted Substances
Prohibited	Lead and Lead compounds (as Pb)		14931-82-9	REACH AnnexXV II Restricted Substances
Prohibited	214Pb		15067-28-4	REACH AnnexXV II Restricted Substances
Prohibited	212Pb		15092-94-1	REACH AnnexXV II Restricted Substances
Prohibited	202Pb		15752-86-0	REACH AnnexXV II Restricted Substances
Prohibited	Acetic acid, lead(2+) salt, monohydrate		15773-48-5	REACH AnnexXV II Restricted Substances
Prohibited	211Pb		15816-77-0	REACH AnnexXV II Restricted Substances
Prohibited	Ethanedioic acid, lead salt		15843-48-8	REACH AnnexXV II Restricted Substances
Prohibited	Phosphoric acid, lead salt		16040-38-3	REACH AnnexXV II Restricted Substances
Prohibited	Phosphoric acid, lead(2+) salt (2:1)		16180-04-4	REACH AnnexXV II Restricted Substances
Prohibited	200Pb		16645-99-1	REACH AnnexXV II Restricted Substances
Prohibited	198Pb		16646-00-7	REACH AnnexXV II Restricted Substances
Prohibited	201Pb		17239-87-1	REACH AnnexXV II Restricted Substances
Prohibited	Acetic acid, lead(2+) salt, dihydrate		22723-52-0	REACH AnnexXV II Restricted Substances
Prohibited	199Pb		27486-00-6	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, tetrahydroxy-		29491-37-0	REACH AnnexXV II Restricted Substances



6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Sulfuric acid, lead(2+) lead(4+) salt (3:1:1)		35830-81-0	REACH AnnexXV II Restricted Substances
Prohibited	Triethyllead acetate		2587-81-7	REACH AnnexXV II Restricted Substances
Prohibited	lead(II) perchlorate trihydrate		13453-62-8	REACH AnnexXV II Restricted Substances
Prohibited	Lead, triphenyl(phenylthio)- (7CI)		15590-77-9	REACH AnnexXV II Restricted Substances
Prohibited	Plumbane, acetoxytripropyl-		13266-07-4	REACH AnnexXV II Restricted Substances
Prohibited	triethylplumbanecarbonitrile		13732-17-7	REACH AnnexXV II Restricted Substances
Prohibited	1,3-Benzenediol, 2-nitro-, lead salt, basic		68411-33-6	REACH AnnexXV II Restricted Substances
Prohibited	Frits, chemicals		65997-18-4	REACH AnnexXV II Restricted Substances
Prohibited	Oils, menhaden, lead salts		68424-76-0	REACH AnnexXV II Restricted Substances
Prohibited	Hexanoic acid, dimethyl-, lead(2+) salt, basic		68442-95-5	REACH AnnexXV II Restricted Substances
Prohibited	Hexanoic acid, 2-ethyl-, lead(2+) salt, basic		68515-76-4	REACH AnnexXV II Restricted Substances
Prohibited	Hexanoic acid, 3,5,5-trimethyl-, lead(2+) salt, basic		68515-77-5	REACH AnnexXV II Restricted Substances
Prohibited	Linseed oil, lead manganese salt		68553-17-3	REACH AnnexXV II Restricted Substances
Prohibited	Oils, fish, lead salts		68553-63-9	REACH AnnexXV II Restricted Substances
Prohibited	Spinels, boron calcium lead silicon white		68555-05-5	REACH AnnexXV II Restricted Substances
Prohibited	Spinels, lead silicon tin zinc white		68555-07-7	REACH AnnexXV II Restricted Substances
Prohibited	Zinc sulfide (ZnS), copper and lead-doped		68585-90-0	REACH AnnexXV II Restricted Substances
Prohibited	Octanoic acid, branched, lead salts, basic		68604-56-8	REACH AnnexXV II Restricted Substances
Prohibited	Fatty acids, tallow, hydrogenated, lead salts		68605-98-1	REACH AnnexXV II Restricted Substances
Prohibited	Tungstate (WO42-), calcium (1:1), (T-4)-, lead-doped		68784-53-2	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Silicic acid (H <sub>6</sub> Si <sub>2</sub> O <sub>7</sub> ), barium magnesium strontium salt, lead-doped		68784-74-7	REACH AnnexXV II Restricted Substances
Prohibited	Acetic acid, reaction products with lead oxide (PbO), silica and sulfuric acid		68937-05-3	REACH AnnexXV II Restricted Substances
Prohibited	Flue dust, lead-tin alloy-manufg.		69012-60-8	REACH AnnexXV II Restricted Substances
Prohibited	Flue dust, zinc-refining		69012-63-1	REACH AnnexXV II Restricted Substances
Prohibited	Leach residues, zinc ore-calcine, zinc cobalt		69012-72-2	REACH AnnexXV II Restricted Substances
Prohibited	Dore		69029-47-6	REACH AnnexXV II Restricted Substances
Prohibited	Slags, lead reverbatory smelting		69029-58-9	REACH AnnexXV II Restricted Substances
Prohibited	Zinc, desilverizing skims		69029-60-3	REACH AnnexXV II Restricted Substances
Prohibited	Bismuth, refinery lead chloride residues		69029-61-4	REACH AnnexXV II Restricted Substances
Prohibited	Leach residues, precious metal recovery lead refining		69029-72-7	REACH AnnexXV II Restricted Substances
Prohibited	Calcines, lead ore conc.		69029-74-9	REACH AnnexXV II Restricted Substances
Prohibited	Residues, lead roaster		69029-78-3	REACH AnnexXV II Restricted Substances
Prohibited	Residues, lead smelting		69029-79-4	REACH AnnexXV II Restricted Substances
Prohibited	Residues, precious metal recovery lead refining		69029-80-7	REACH AnnexXV II Restricted Substances
Prohibited	Slags, lead smelting		69029-84-1	REACH AnnexXV II Restricted Substances
Prohibited	Slags, precious metal recovery lead refining		69029-85-2	REACH AnnexXV II Restricted Substances
Prohibited	Slags, tellurium		69029-86-3	REACH AnnexXV II Restricted Substances
Prohibited	Slimes and Sludges, lead refining		69029-93-2	REACH AnnexXV II Restricted Substances
Prohibited	Matte, lead		84195-51-7	REACH AnnexXV II Restricted Substances
Prohibited	Slimes and Sludges, lead, electrolytic		84195-60-8	REACH AnnexXV II Restricted Substances

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Speiss, lead		84195-61-9	REACH AnnexXVII Restricted Substances
Prohibited	Lead chloride silicate		39390-00-6	REACH AnnexXVII Restricted Substances
Prohibited	Resin acids and Rosin acids, lead salts		9008-26-8	REACH AnnexXVII Restricted Substances
Observation	Cobalt lithium manganese nickel oxide		182442-95-1	2022 GADSL
Observation	Cobalt lithium manganese nickel oxide		346417-97-8	2022 GADSL
Observation	Nickel, [N-(4-chlorophenyl)-3-[2-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-(oxo-κO)-1H-pyrazol-4-yl]methylene]hydrazinylidene-κN2]-α-cyano-1H-isoindole-3-acetamidato(2-)-κN2,κO3]-		106887-33-6	REACH AnnexXVII Restricted Substances
Observation	Nickel, bis(hexahydro-1H-azepine-1-carbodithioato-κS1,κS'1)-, (SP-4-1)-		14434-67-4	REACH AnnexXVII Restricted Substances
Observation	Nickel, bis[(2-phenyldiazene-carbothioic acid-κS) 2-phenylhydrazidato-κN2]-		12213-15-9	REACH AnnexXVII Restricted Substances
	Per and Poly- fluoroalkyl substances (PFAS), as identified in rows 157 to 173.		-	2022 GADSL
	PFHxA, Undecafluorohexanoic acid, its salts and PFHxA related substances, identified in rows 161 to 162.		-	2022 GADSL
Observation	Ammonium undecafluorohexanoate		21615-47-4	2022 GADSL
Observation	sodium undecafluorohexanoate		2923-26-4	2022 GADSL
Observation	undecafluorohexanoic acid		307-24-4	2022 GADSL
Observation	Chlorodimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-nonyl)silane		102488-47-1	2022 GADSL
Observation	sodium hydrogen (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phosphonate		1189052-95-6	2022 GADSL
Observation	(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)phosphonic acid monoethyl ester		1189052-97-8	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl methacrylate		1228350-17-1	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	lithium 2-(bis(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-2-hydroxynonyl)amino)ethane-1-sulfonate		1262880-17-0	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluoro-2-hydroxynonyl acrylate		127377-12-2	2022 GADSL
Observation	Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4bis(trifluoromethyl)heptyl]silane		130676-81-2	2022 GADSL
Observation	1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4(trifluoromethyl)pentane		132182-92-4	2022 GADSL
Observation	(perfluorohexyl)hexadecane		133310-71-1	2022 GADSL
Observation	1-(Perfluorohexyl)octane		133331-77-8	2022 GADSL
Observation	Trimethyl(tridecafluorohexyl)silane		135841-49-5	2022 GADSL
Observation	4,4,5,5,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl acrylate		16083-76-4	2022 GADSL
Observation	4,4,5,5,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl methacrylate		16083-79-7	2022 GADSL
Observation	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl acrylate		17527-29-6	2022 GADSL
Observation	bromotris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane		175354-31-1	2022 GADSL
Observation	tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane		175354-32-2	2022 GADSL
Observation	(prop-2-en-1-yl)tris(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)stannane		192212-66-1	2022 GADSL
Observation	Tris[4-(tridecafluorohexyl)phenyl]phosphine		193197-68-1	2022 GADSL
Observation	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane		2043-57-4	2022 GADSL
Observation	1H,1H-Tridecafluoro-1-iodoheptane		212563-43-4	2022 GADSL
Observation	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl methacrylate		2144-53-8	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phenyl]phosphine		219985-31-6	2022 GADSL
Observation	Phosphonic acid, P-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-		252237-40-4	2022 GADSL
Observation	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooct-1-ene		25291-17-2	2022 GADSL
Observation	1H-Tridecafluoro-3,3-dimethylhex-1-yne		261503-44-0	2022 GADSL
Observation	Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester		26650-09-9	2022 GADSL
Observation	Methyl Perfluoroamyl Ketone		2708-07-8	2022 GADSL
Observation	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonyl chloride		27619-89-2	2022 GADSL
Observation	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonic acid		27619-97-2	2022 GADSL
Observation	2H,2H,3H,3H-Perfluorononanoic acid		27854-30-4	2022 GADSL
Observation	Perfluorohexanoic Anhydride		308-13-4	2022 GADSL
Observation	1-Methyl-3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)imidazolium hexafluorophosphate		313475-50-2	2022 GADSL
Observation	Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)tin oxide		324063-66-3	2022 GADSL
Observation	Perfluorohexanoyl chloride		335-53-5	2022 GADSL
Observation	1-bromo-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane		335-56-8	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide		34451-26-8	2022 GADSL
Observation	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctane-1-sulfonamide		34455-22-6	2022 GADSL
Observation	Carboxymethyldimethyl-3-[[3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctylsulphonyl]amino]propylammonium hydroxide		34455-29-3	2022 GADSL
Observation	1H,1H-Undecafluorohexylamine		355-34-0	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Perfluorohexanoyl fluoride		355-38-4	2022 GADSL
Observation	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane		355-43-1	2022 GADSL
Observation	4-(3,3,4,4,5,5,6,6,7,7,8,8-Tridecafluorooctyl)benzyl alcohol		356055-76-0	2022 GADSL
Observation	Diisopropyl(3,3,4,4,5,5,6,6,7,7,8,8-tridecafluorooctyl)silane		356056-14-9	2022 GADSL
Observation	4-[(3,3,4,4,5,5,6,6,7,7,8,8-tridecafluorooctyl)thio]butane-1thiol		36097-07-1	2022 GADSL
Observation	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol		375-82-6	2022 GADSL
Observation	Ethyl Perfluoroamyl Ketone		383177-55-7	2022 GADSL
Observation	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane		38550-34-4	2022 GADSL
Observation	(2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)oxirane		38565-52-5	2022 GADSL
Observation	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-		423-46-1	2022 GADSL
Observation	1H,1H-Tridecafluoroheptylamine		423-49-4	2022 GADSL
Observation	Methyl Undecafluorohexanoate		424-18-0	2022 GADSL
Observation	Bis(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl) azodicarboxylate		452912-11-7	2022 GADSL
Observation	2-[methyl[(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)sulphonyl]amino]ethyl acrylate		49859-70-3	2022 GADSL
Observation	(7E)-7H,8H-Hexacosaf fluorotetradec-7-ene		51249-67-3	2022 GADSL
Observation	1-Octanesulfonamide, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-N(2-hydroxyethyl)-N-methyl-		51619-73-9	2022 GADSL
Observation	Triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		51851-37-7	2022 GADSL
Observation	Perfluoroheptanoyl chloride		52447-22-0	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	6:2 fluorotelomer carboxylic acid		53826-12-3	2022 GADSL
Observation	3-(Perfluoro-3-methylbutyl)-1,2-propenoxide 97%		54009-81-3	2022 GADSL
Observation	N-[4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyloxycarbonyloxy] succinimide		556050-48-7	2022 GADSL
Observation	1H-Perfluorooct-1-yne		55756-24-6	2022 GADSL
Observation	6:2 fluorotelomer aldehyde		56734-81-7	2022 GADSL
Observation	1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, 1(dihydrogen phosphate)		57678-01-0	2022 GADSL
Observation	Potassium 3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctanesulphonate		59587-38-1	2022 GADSL
Observation	Ammonium Perfluorohexylethylsulfonate		59587-39-2	2022 GADSL
Observation	sodium 2-methyl-2-({3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]propanoyl}amino)propane-1-sulfonate		62880-93-7	2022 GADSL
Observation	perfluoroheptanal		63967-41-9	2022 GADSL
Observation	2-(Perfluoro-3-methylbutyl)ethyl methacrylate		65195-44-0	2022 GADSL
Observation	6:2 fluorotelomer unsaturated aldehyde		69534-12-9	2022 GADSL
Observation	6:2 fluorotelomer unsaturated carboxylic acid		70887-88-6	2022 GADSL
Observation	Dichloromethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		73609-36-6	2022 GADSL
Observation	2-Hydroxy-N,N-dimethyl-3-sulfo-N-[3-[[{(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl]amino]propyl]-1-propanaminium, inner salt		76201-56-4	2022 GADSL
Observation	(Perfluorohexyl)phenyliodonium Trifluoromethanesulfonate		77758-84-0	2022 GADSL
Observation	Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		78560-45-9	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluoroctanesulphonamide N-oxide		80475-32-7	2022 GADSL
Observation	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorooctane		80793-17-5	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol		80806-68-4	2022 GADSL
Observation	1-(Perfluorohexyl)docosane		825651-73-8	2022 GADSL
Observation	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)maleimide		852527-41-4	2022 GADSL
Observation	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide		852527-50-5	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl azide		852527-60-7	2022 GADSL
Observation	Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane		85857-16-5	2022 GADSL
Observation	Dimethoxymethyl(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)silane		85857-17-6	2022 GADSL
Observation	3-perfluorohexyl-2-hydroxypropyl methacrylate		86994-47-0	2022 GADSL
Observation	(Perfluorohexyl)trifluorooxirane		87375-53-9	2022 GADSL
Observation	2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)thio]propan-1-aminium chloride		88992-45-4	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide		89889-20-3	2022 GADSL
Observation	3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol		914637-05-1	2022 GADSL
Observation	2-Chloro-4,6-bis[3-(perfluorohexyl)propyloxy]-1,3,5-triazine		916770-15-5	2022 GADSL
Observation	N-Succinimidyl 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononanoate		932710-51-5	2022 GADSL
Observation	2,7-Bis(1H1H2H,2H-perfluorooctyl)-9-fluorenylmethoxycarbonyl chloride		932710-57-1	2022 GADSL



6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-chloroacrylate		96383-55-0	2022 GADSL
Prohibited	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8-pentadecafluoro-, lithium salt (1:1)		17125-58-5	2022 GADSL
Prohibited	1-Pentadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-heptacosafuoro-		176676-70-3	2022 GADSL
Prohibited	1-Tridecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafuoro-		1545-59-1	2022 GADSL
Prohibited	1-Undecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoro-		87017-97-8	2022 GADSL
Prohibited	Undecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoro-		191852-87-6	2022 GADSL
Prohibited	1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate)		54009-73-3	2022 GADSL
Prohibited	1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt		63295-18-1	2022 GADSL
Prohibited	1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate), compd. with 2,2'-iminobis[ethanol] (1:2)		63295-19-2	2022 GADSL
Prohibited	2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate, diammonium salt		63295-23-8	2022 GADSL
Prohibited	Acetic acid, 2-[[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadeca fluoro-1-[(phosphonoxy)methyl]-9-(trifluoromethyl) decyl]oxy]-, ammonium salt (1:2)		63295-24-9	2022 GADSL
Prohibited	1-Undecanol, 2-chloro-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate		63295-22-7	2022 GADSL
Prohibited	2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-, dihydrogen phosphate, potassium salt		90179-37-6	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2,2',2''-nitrilotris[ethanol] (1:3)		98005-85-7	2022 GADSL
Prohibited	Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2-aminoethanol (1:3)		98005-84-6	2022 GADSL
Prohibited	Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester		1158182-60-5	2022 GADSL
Prohibited	Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl) ester		1578186-42-1	2022 GADSL
Prohibited	Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl) ester		1158182-61-6	2022 GADSL
Prohibited	1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11, 11,11-hexadecafluoro-10-(trifluoromethyl)-, 1,1-(hydrogen phosphate)		63295-20-5	2022 GADSL
Prohibited	1-Undecanol, 2-chloro-4,4,5,5,6,6,7,7,8,8,9,9, 10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, hydrogen phosphate		63295-26-1	2022 GADSL
Prohibited	1-Nonadecanol, 12,12,13,13,14,14,15,15,16, 16,17,17, 18,18,19,19,19-heptadecafluoro-, dihydrogen phosphate		2343-53-5	2022 GADSL
Prohibited	Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl bis(3,3,4,4,5,5,6,6, 7,7,8,8,8-tridecafluorooctyl) ester		1578186-53-4	2022 GADSL
Prohibited	Phosphoric acid, bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl) 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester		1578186-56-7	2022 GADSL
Prohibited	Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafuorododecyl 3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester		1578186-64-7	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-heneicosafuorododecylbis (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ester		1578186-57-8	2022 GADSL
Prohibited	1-Decanesulfonamide, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluoro-N-[3-(phosphono oxy)propyl]-N-propyl-, sodium salt (1:2)		441765-20-4	2022 GADSL
Prohibited	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluoro-1-(hydroxymethyl)decyl ester		146955-29-5	2022 GADSL
Prohibited	2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,11-heptadecafluoro-2-hydroxyundecyl ester		76962-34-0	2022 GADSL
Prohibited	Silane, tetrakis[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9, 10,10,10-heptadecafluorodecyl)thio]ethyl]-		1189587-64-1	2022 GADSL
Prohibited	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		77117-48-7	2022 GADSL
Prohibited	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		1835250-28-6	2022 GADSL
Prohibited	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		182130-12-7	2022 GADSL
Prohibited	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		1835250-47-9	2022 GADSL
Prohibited	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		182130-14-9	2022 GADSL
Prohibited	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		182130-15-0	2022 GADSL
Prohibited	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		6145-05-7	2022 GADSL
Prohibited	Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		931415-52-0	2022 GADSL
Prohibited	Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		138472-76-1	2022 GADSL
Prohibited	Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		117146-18-6	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		133310-73-3	2022 GADSL
Prohibited	Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		137338-39-7	2022 GADSL
Prohibited	Triacontane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		137338-40-0	2022 GADSL
Prohibited	Dotriacontane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		137338-41-1	2022 GADSL
Prohibited	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		154478-87-2	2022 GADSL
Prohibited	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		1835251-22-3	2022 GADSL
Prohibited	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		1244062-17-6	2022 GADSL
Prohibited	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		250738-42-2	2022 GADSL
Prohibited	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		116177-54-9	2022 GADSL
Prohibited	Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		200817-54-5	2022 GADSL
Prohibited	Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		93454-70-7	2022 GADSL
Prohibited	Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		125635-85-0	2022 GADSL
Prohibited	Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		90499-29-9	2022 GADSL
Prohibited	Docosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-		93454-71-8	2022 GADSL
Prohibited	Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,20-tetratriacontafuoro-		133299-41-9	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,17, 17,18,18,19,19,20,20,21,21,22,22,23,23, 24, 24,24-tetratriacontafuoro-		100550-08-1	2022 GADSL
Prohibited	9-Tetracosene, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		1244062-16-5	2022 GADSL
Prohibited	1-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11- hexadecafluoro-10-(trifluoromethyl)-		31200-97-2	2022 GADSL
Prohibited	1-Nonanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- heptadecafluoro-		423-56-3	2022 GADSL
Prohibited	1-Decanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10- nonadecafluoro-		307-37-9	2022 GADSL
Prohibited	1-Undecanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,11-heneicosafuoro-		307-46-0	2022 GADSL
Prohibited	Nonanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- heptadecafluoro-		63967-40-8	2022 GADSL
Prohibited	Decanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- nonadecafluoro-		335-73-9	2022 GADSL
Prohibited	Undecanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,11, 11,11-heneicosafuoro-		63967-42-0	2022 GADSL
Prohibited	Ethanol, 2-[2- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10- heptadecafluorodecyl)oxy]ethoxy]-		56900-98-2	2022 GADSL
Prohibited	Propanol, [2- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10- heptadecafluorodecyl)oxy]methylethoxy ]-		88243-13-4	2022 GADSL
Prohibited	Ethanol, 2-[2-[2- [(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10- heptadecafluorodecyl)oxy]methylethoxy ] methylethoxy]-		88243-12-3	2022 GADSL
Prohibited	3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17, 17,18,18,19,19,20,20,21,21,22,22,22- heptadecafluoro-		55427-54-8	2022 GADSL
Prohibited	3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17, 17,18,18,19,19,20,20,21,21,22,22,22- heptadecafluorodimethyl-		88271-22-1	2022 GADSL
Prohibited	3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17, 17,18,18,19,19,20,20,21,21,22,22,22- heptadecafluorotetramethyl-		88243-14-5	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18,19, 19,20,20,21,21,22,22,23,23,24,24,25,25, 25-heptadecafluoropentamethyl-		88243-15-6	2022 GADSL
Prohibited	3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22, 22,23,23,24,24,25,25,26,26,27,27,28,28, 28-heptadecafluoro-		88247-39-6	2022 GADSL
Prohibited	3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22, 22,23,23,24,24,25,25,26,26,27,27,28,28, 28-heptadecafluoropentamethyl-		88243-11-2	2022 GADSL
Prohibited	3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22, 22,23,23,24,24,25,25,26,26,27,27,28,28, 28-heptadecafluoro hexamethyl-		88243-16-7	2022 GADSL
Prohibited	3,6,9,12,15,18,21- Heptaoxahentriacontan-1-ol, 24,24,25,25,26,26,27,27,28,28,29,29,30, 30,31,31,31- heptadecafluoropentamethyl-		88243-10-1	2022 GADSL
Prohibited	3,6,9,12,15,18,21,24- Octaoxatetracontan-1-ol, 27,27,28,28,29,29,30,30,31,31,32,32,33, 33,34,34,34-heptadecafluoro-		88247-40-9	2022 GADSL
Prohibited	3,6,9,12,15,18,21,24- Octaoxatetracontan-1-ol, 27,27,28,28,29,29,30,30,31,31,32,32,33, 33,34,34,34- heptadecafluorooctamethyl-		88243-17-8	2022 GADSL
Prohibited	3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18, 19,19,20,20,21,21,22,22,23,23,24,24,25, 25,25-heptadecafluoropentamethyl-, acetate		88243-09-8	2022 GADSL
Prohibited	1,2-Propanediol, 3- [(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluorodecyl)oxy]-		121500-31-0	2022 GADSL
Prohibited	11,14,17,20,23,26,29,32- Octaoxaoctatetracontan-33-one, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-		67549-47-7	2022 GADSL
Prohibited	Tridecanoic acid, 27,27,28,28,29,29,30,30,31,31, 32,32,33,33,34,34,34-heptadecafluoro- 3,6,9,12, 15,18,21,24-octaoxatetra triacont-1-yl ester		67535-33-5	2022 GADSL
Prohibited	Oxirane, 2- [[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl)oxy]methyl]-		114482-33-6	2022 GADSL
Prohibited	1-Decanaminiun, N,N-diethyl- 3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-2-hydroxy-N-methyl-, iodide (1:1)		99679-40-0	2022 GADSL

## 6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	1-Undecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,11-heptafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1)		93776-18-2	2022 GADSL
Prohibited	2-Undecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,11-nonadecafluoro-1-[(1-methylpropyl) amino]-		94817-79-5	2022 GADSL
Prohibited	2-Dodecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11, 12,12,12-nonadecafluoro-1-[(1-methylpropyl) amino]-		94817-80-8	2022 GADSL
Prohibited	1-Propanaminium, 3-[[4-[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptafluorodecyl)oxy]-1,4-dioxo-2-buten-1-yl]amino]-N,N,N-trimethyl-, iodide (1:1)		121912-26-3	2022 GADSL
Prohibited	1-Tetradecanaminium, N-ethyl-2-[[[[3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-fluorodecyl)oxy]carbonyl]amino]methylphenyl]amino]carbonyl]amino]methylphenyl]amino]methylphenyl]amino]		100155-23-5	2022 GADSL
Prohibited	1-Tetradecanaminium, N-ethyl-2-[[[[3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-fluorodecyl)oxy]carbonyl]amino]methylphenyl] carbonimidoyl]amino]methylphenyl]car		100107-48-0	2022 GADSL
Prohibited	1-Decanaminium, N-(carboxymethyl)- 3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,10,10-heptafluoro-N,N-dimethyl-		2089109-26-0	2022 GADSL
Prohibited	1-Dodecanaminium, N-(carboxymethyl)- 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,1 2,12,12-heneicosafuoro-N,N-dimethyl-		2089109-27-1	2022 GADSL
Prohibited	1-Decanaminium, N-(carboxymethyl)- 3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,10,10-heptafluoro-N,N-dimethyl-, inner salt		145441-32-3	2022 GADSL
Prohibited	1-Dodecanaminium, N-(carboxymethyl)- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,1 2,12-nonadecafluoro-N,N-dimethyl-, inner salt		171184-16-0	2022 GADSL
Prohibited	1-Tetradecanaminium, N-(carboxymethyl)- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,1 2,13,13,14,14,14-tricosafuoro-N,N-dimethyl-, inner salt		171184-17-1	2022 GADSL
Prohibited	1-Dodecanaminium, N-(carboxymethyl)- 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-eicosafuoro-N,N-dimethyl-, inner salt		171184-04-6	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	1-Dodecanaminium, N-(carboxymethyl)-5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heptadeca fluoro-N,N-dimethyl-		2089109-30-6	2022 GADSL
Prohibited	1-Undecanaminium, 2-(acetyloxy)-N-(carboxy methyl)-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-N,N-dimethyl-, inner salt		80234-03-3	2022 GADSL
Prohibited	1-Tridecanaminium, 2-(acetyloxy)-N-(carboxy methyl)-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-N,N-dimethyl-, inner salt		80244-66-2	2022 GADSL
Prohibited	2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,10-heptadecafluoro-1-decanethiol		76830-13-2	2022 GADSL
Prohibited	2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-1-dodecanethiol		121913-10-8	2022 GADSL
Prohibited	1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluoro-, potassium salt (1:1)		438237-73-1	2022 GADSL
Prohibited	Butanedioic acid, 2-sulfo-, 1,4-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, sodium salt (1:1)		54950-06-0	2022 GADSL
Prohibited	Acetic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 10-heptadecafluorodecyl)thio]-, lithium salt (1:1)		441765-12-4	2022 GADSL
Prohibited	Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl)thio]-		54207-62-4	2022 GADSL
Prohibited	Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)		481050-04-8	2022 GADSL
Prohibited	Ethanesulfonic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)		441765-14-6	2022 GADSL
Prohibited	2-Propanol, 1,3-bis[(3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10-heptadecafluorodecyl)thio]-		160819-47-6	2022 GADSL
Prohibited	2-Propanol, 1-[(2-dodecylhexadecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		160819-50-1	2022 GADSL



6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	2-Propanol, 1-[(2-decyltetradecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		160819-49-8	2022 GADSL
Prohibited	2,5,8,11,14,17,20,23-Octaoxa-27-thiaheptatria contan-25-ol, 30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,37-heptadecafluoro-		121912-28-5	2022 GADSL
Prohibited	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		727351-53-3	2022 GADSL
Prohibited	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)sulfinyl]-		1513864-17-9	2022 GADSL
Prohibited	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, chloride (1:1)		71940-07-3	2022 GADSL
Prohibited	Ethanaminium, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]ethoxy]-N,N,N-trimethyl-, iodide (1:1)		71625-52-0	2022 GADSL
Prohibited	Acetamide, N-[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-		1513863-91-6	2022 GADSL
Prohibited	Acetamide, N-[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]-		1513863-92-7	2022 GADSL
Prohibited	1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]acetyl]amino]-N,N,N-trimethyl-		704870-51-9	2022 GADSL
Prohibited	1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorodecyl)thio]acetyl]amino]-N,N,N-trimethyl-		1513864-01-1	2022 GADSL
Prohibited	1-Propanaminium, N-ethyl-3-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-2-methyl-1-oxopropyl]amino]-N,N-dimethyl-, ethyl sulfate (1:1)		67333-62-4	2022 GADSL
Prohibited	1-Propanaminium, N-(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]acetyl]amino]-N,N-dimethyl-, inner salt		1513863-96-1	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	1-Propanaminium, N-(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorodecyl)thio]acetyl] amino]-N,N-dimethyl-, inner salt		1513863-97-2	2022 GADSL
Prohibited	Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) thio]-4-oxo-		1383438-89-8	2022 GADSL
Prohibited	Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorodecyl)thio]-4-oxo-		1383438-90-1	2022 GADSL
Prohibited	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-		755698-73-8	2022 GADSL
Prohibited	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl)thio]-1-oxopropyl] amino]-2-methyl-		690947-60-5	2022 GADSL
Prohibited	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)		62880-96-0	2022 GADSL
Prohibited	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)		62880-98-2	2022 GADSL
Prohibited	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfinyl]-		1513864-19-1	2022 GADSL
Prohibited	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) sulfinyl]-1-oxopropyl]amino]-2-methyl-		1513864-12-4	2022 GADSL
Prohibited	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl)sulfinyl]-1-oxopropyl]amino]-2-methyl-		1513864-11-3	2022 GADSL
Prohibited	1-Decanesulfonamide, N-[3-(dimethyloxiido amino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluoro-		80475-33-8	2022 GADSL
Prohibited	1-Decanesulfonamide, N-[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		34455-23-7	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	1-Dodecanesulfonamide, N-[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-		34455-24-8	2022 GADSL
Prohibited	Ethanaminium, N-(2-carboxyethyl)-2-[[3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]-N,N-dimethyl-, inner salt		34695-29-9	2022 GADSL
Prohibited	Ethanaminium, N-(2-carboxyethyl)-2-[[3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)sulfonyl]amino]-N,N-dimethyl-, inner salt		34695-31-3	2022 GADSL
Prohibited	Glycine, N-[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl]-N-propyl-, lithium salt		441765-18-0	2022 GADSL
Prohibited	β-Alanine, N-(2-carboxyethyl)-N-[6-[[3,3,4,4, 5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]hexyl]-, dipotassium salt		98900-53-9	2022 GADSL
Prohibited	2-Propenoic acid, polymer with 2-ethenylnaphthalene and 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl 2-propenoate		934505-67-6	2022 GADSL
Prohibited	Glycine, N-ethyl-N-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, ammonium salt		138473-79-7	2022 GADSL
Prohibited	Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-(14-hydroxy-3,6,9,12-tetraoxatetradec-1-yl)-		89932-71-8	2022 GADSL
Prohibited	Ethanaminium, N,N,N-trimethyl-2-[(2,2,3,3,4,4, 5,5,6,6,7,7,7-pentadecafluoro-1-oxooctyl)amino]-, chloride (1:1)		178766-44-4	2022 GADSL
Prohibited	Octanamide, N-[3-(dimethylamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		376-23-8	2022 GADSL
Prohibited	1-Pentanaminium, N,N,N-trimethyl-5-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, iodide (1:1)		91707-61-8	2022 GADSL
Prohibited	Octanamide, N-[3-(dimethyloxidoamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		30295-53-5	2022 GADSL
Prohibited	Pyridinium, 1-[2-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethyl]-, chloride (1:1)		308-01-0	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Pyridinium, 1-[2-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethyl]-, bromide (1:1)		331755-02-3	2022 GADSL
Prohibited	Piperazinium, 1-(2-hydroxyethyl)-1-methyl-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, chloride (1:1)		103555-98-2	2022 GADSL
Prohibited	Ethanesulfonic acid, 2-[ethyl(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, potassium salt (1:1)		57670-46-9	2022 GADSL
Prohibited	1-Propanesulfonic acid, 3-[(3-aminopropyl)(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-2-hydroxy-, sodium salt (1:1)		98900-76-6	2022 GADSL
Prohibited	Benzenesulfonic acid, 4-[[[3-(methylamino)propyl](2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]methyl]-, sodium salt (1:1)		98900-75-5	2022 GADSL
Prohibited	Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-[3-(trimethoxysilyl)propyl]-Poly(oxy-1,2-ethanediyl), α-		98046-76-5	2022 GADSL
Prohibited	[dimethoxy[3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]-ω-[[dimethoxy[3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]oxy]-		154380-30-0	2022 GADSL
Observation	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)dodecanoyl fluoride		15811-52-6	2022 GADSL
Observation	Docosafluoro-11-(trifluoromethyl)dodecanoic acid		16486-96-7	2022 GADSL
Observation	Hexacosafuoro-13-(trifluoromethyl)tetradecanoic acid		18024-09-4	2022 GADSL
Observation	Perfluoro-n-undecanoic acid		2058-94-8	2022 GADSL
Observation	Perfluorononan-1-oic acid, sodium salt		21049-39-8	2022 GADSL
Observation	Perfluorododecanoic acid		307-55-1	2022 GADSL
Observation	Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate		307-71-1	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Ammonium nonadecafluorodecanoate		3108-42-7	2022 GADSL
Observation	Decanoic acid, nonadecafluoro-		335-76-2	2022 GADSL
Observation	Ammonium octadecafluoro-9-(trifluoromethyl)decanoate		3658-63-7	2022 GADSL
Observation	Nonanoic acid, heptadecafluoro-		375-95-1	2022 GADSL
Observation	Perfluoromyristic acid		376-06-7	2022 GADSL
Observation	Ammonium tricosafuorododecanoate		3793-74-6	2022 GADSL
Observation	Sodium nonadecafluorodecanoate		3830-45-3	2022 GADSL
Observation	Perfluorononan-1-oic acid, ammonium salt		4149-60-4	2022 GADSL
Observation	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)lauric acid, compound with ethylamine (1:1)		68015-87-2	2022 GADSL
Observation	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)myristoyl fluoride		68025-62-7	2022 GADSL
Observation	Pentacosafuorotridecanoic acid		72629-94-8	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-2-hydroxyheptadecyl dihydrogen phosphate		94200-43-8	2022 GADSL
Observation	Bis(2-hydroxyethyl)methyl(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)ammonium iodide		93776-16-0	2022 GADSL
Observation	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl dihydrogen phosphate		94200-42-7	2022 GADSL
Observation	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoic acid		1765-48-6	2022 GADSL
Observation	Bis(2-hydroxyethyl)methyl[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]ammonium iodide		94159-76-9	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	2H-Pyran, 2,2,3,3,4,4,5,5,6-nonafluorotetrahydro-6-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluorononyl)-		68155-54-4	2022 GADSL
Observation	C9-C14 PFCAs salts and precursors		NA	2022 GADSL
	PFHxS, Perfluorohexane-1-sulphonic acid and its salts and PFHxS Related Substances, identified in rows 172 to 173.		-	2022 GADSL
Observation	1-Hexanesulfonyl bromide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		111393-39-6	2022 GADSL
Observation	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N,N-dimethyl-		1270179-82-2	2022 GADSL
Observation	1-Hexanesulfonamide, N,N-diethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		1270179-93-5	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate		127133-66-8	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-(2-oxiranylmethyl)		129813-71-4	2022 GADSL
Observation	â-Alanine, N-[3-(dimethylamino)propyl]-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		141607-32-1	2022 GADSL
Observation	1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-methyl-		1427176-17-7	2022 GADSL
Observation	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N,N-bis(2-methoxyethyl)-		1427176-20-2	2022 GADSL
Observation	Benzenamine, 4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		147029-28-5	2022 GADSL
Observation	Fatty acids, C18-unsatd., trimers, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl esters		148240-80-6	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol		148684-79-1	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Benzene, 1-fluoro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		149652-30-2	2022 GADSL
Observation	Benzoic acid, 2,3,4,5-tetrachloro-6-[[[(3-hydroxyphenyl)amino]carbonyl]-, perfluoro-C6-8-alkanesulfonates (esters), monopotassium salts		160305-97-5	2022 GADSL
Observation	2-Propenoic acid, butyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate		160336-17-4	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate		160901-25-7	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol, Me Et ketone oxime and polymethylenepolyphenylene isocyanate		160901-26-8	2022 GADSL
Observation	Fatty acids, C18-unsatd., trimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters		161074-58-4	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-(3-chloro-2-hydroxypropyl)-N-methyl		1645842-67-6	2022 GADSL
Observation	Sulfonamides, C7-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,3-bis(isocyanatomethyl)benzene and N-butyl-1-butanamine		1645850-46-9	2022 GADSL
Observation	Sulfonamides, C7-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,3-bis(isocyanatomethyl)benzene		1645852-09-0	2022 GADSL
Observation	Siloxanes and Silicones, di-Me, Bu group- and 3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated, telomers with acrylic acid, di-Me, Me 3-mercaptopropyl siloxanes, Me acrylate, Me methacrylate and 2-[methyl[(perfluoro-c4-8-alkyl)sulfonyl]amino]ethyl acrylate, 2,2'-(1,2-diazenediyl)bis[2-methylpropanenitrile]-initiated		1645852-10-3	2022 GADSL
Observation	2-Propenoic acid, polymers with lauryl acrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate		1648534-82-0	2022 GADSL
Observation	Poly(oxy-1,2-ethanediyl), á-[2-(methylamino)ethyl]-ù-hydroxy-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., C12-16-alkyl ethers		1648539-69-8	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	2-Propenoic acid, 2-(methylamino)ethyl ester, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., polymers with propene		1648540-20-8	2022 GADSL
Observation	Benzene, 1-nitro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		171561-95-8	2022 GADSL
Observation	1-Hexanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt (1:1)		178094-71-8	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked		178535-22-3	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl], potassium salts		179005-06-2	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl]		179005-07-3	2022 GADSL
Observation	2-Propenoic acid, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		1893-52-3	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid		192662-29-6	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with poly(Bu acrylate) and polyethylene-polypropylene glycol mono-Bu ether		222716-67-8	2022 GADSL
Observation	Pyridinium, 1-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, inner salt		254889-10-6	2022 GADSL
Observation	1-Hexanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		30295-56-8	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxyoctadecanoic acid and 2,4-TDI, ammonium salts		306973-47-7	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl]		306974-19-6	2022 GADSL



6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group]-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearyl methacrylate		306974-28-7	2022 GADSL
Observation	Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether		306974-45-8	2022 GADSL
Observation	Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters		306974-63-0	2022 GADSL
Prohibited	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride		306975-62-2	2022 GADSL
Observation	Poly(oxy-1,2-ethanediyl), á-hydro-ù-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides-blocked		306975-84-8	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride		306975-85-9	2022 GADSL
Observation	1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-propen-1-yl)oxy]ethyl]-, bromide (1:1), polymers with Bu acrylate, Bu methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate		306976-25-0	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulfonamides-blocked		306976-55-6	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, telomer with 2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate and 1-octanethiol, N-oxides		306977-10-6	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolyzed compds. with 2,2'-		306977-58-2	2022 GADSL

## 6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride		306978-04-1	2022 GADSL
Observation	Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides- and stearyl alc.-blocked		306978-65-4	2022 GADSL
Observation	Poly(oxy-1,2-ethanediyl), á-[2-(methylamino)ethyl]-ù-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs.		306979-40-8	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediybis[(2-oxo-3,5-oxazolidinediy)methylene]]bis[N-methyl-		306980-27-8	2022 GADSL
Observation	1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-		34455-03-3	2022 GADSL
Observation	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		355-46-4	2022 GADSL
Observation	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt (1:1)		3871-99-6	2022 GADSL
Observation	1-Propanaminium, 3-[(carboxymethyl)][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-N,N,N-trimethyl-, inner salt		38850-52-1	2022 GADSL
Observation	1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-3-[(3-sulfopropyl)][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, inner salt		38850-58-7	2022 GADSL
Observation	1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl]][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-		38850-60-1	2022 GADSL
Observation	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		41997-13-1	2022 GADSL
Observation	1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		423-50-7	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl ester, polymers with polyethylene glycol acrylate Me ether		504396-13-8	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		50598-28-2	2022 GADSL
Observation	Siloxanes and silicones, tri-me, 3-hydroxypropyl group-terminated, reaction products with Me Et ketone oxime, 2-mercaptoethanol, 2-[methyl[(perfluoro-C3-8-alkyl)sulfonyl]amino]ethyl acrylate, polymethylenepolyphenylene isocyanate and polyurethane alcohol		507225-08-3	2022 GADSL
Observation	1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, chloride (1:1)		52166-82-2	2022 GADSL
Observation	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)		55120-77-9	2022 GADSL
Observation	1-Hexanesulfonyl chloride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		55591-23-6	2022 GADSL
Observation	Poly(oxy-1,2-ethanediyl), á-[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl]-ù-hydroxy-		56372-23-7	2022 GADSL
Observation	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-2-propen-1-yl-		67584-48-9	2022 GADSL
Observation	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)		67584-53-6	2022 GADSL
Observation	2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		67584-57-0	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		67584-61-6	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester		67906-70-1	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester, polymer with octadecyl 2-propenoate and 2-propenoic acid		67906-71-2	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl ester		67939-61-1	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	1-Hexanesulfonamide, N,N'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		67939-92-8	2022 GADSL
Observation	1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-[2-(phosphonoxy)ethyl]-		67969-65-7	2022 GADSL
Observation	Hexane, 1-(ethenylsulfinyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		680187-85-3	2022 GADSL
Observation	Hexane, 1-(ethenylsulfonyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		680187-86-4	2022 GADSL
Observation	Carbamic acid, N,N'-(4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl] ester		68081-83-4	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-methyloxirane polymer with oxirane di-2-propenoate, 2-methyloxirane polymer with oxirane		68227-87-2	2022 GADSL
Observation	2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, á-(2-methyl-1-oxo-2-propen-1-yl)-ù-hydroxypoly(oxy-1,2-ethanediyl), á-(2-methyl-1-oxo-2-propen-1-yl)-ù-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and á-(1-oxo-2-propen-1-yl)-ù-		68227-94-1	2022 GADSL



6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	2-Propenoic acid, 2-methyl-, 2-[[[5-[[[2-ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate, 2-[[[5-[[[2-ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[5-[[[2-ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[5-[[[2-ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[5-[[[2-ethyl[(1,1,2,2,3,3,4,4,5,5,5,5-undecafluoropentyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-		68298-78-2	2022 GADSL
Observation	Benzenesulfonic acid, [[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]methyl]-, sodium salt (1:1)		68299-21-8	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]butyl ester, telomer with butyl 2-propenoate, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, á-(2-methyl-1-oxo-2-propen-1-yl)-ù-hydroxypoly(oxy-1,4-butanediyl), á-(2-methyl-1-oxo-2-propen-1-yl)-ù-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,4-butanediyl), 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-		68299-39-8	2022 GADSL
Observation	2-Propenoic acid, ethyl ester, polymer with 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-		68329-56-6	2022 GADSL
Observation	Sulfonic acids, C6-12-alkane, perfluoro, potassium salts		68391-09-3	2022 GADSL
Observation	Glycine, N-ethyl-N-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, sodium salt (1:1)		68555-70-4	2022 GADSL
Observation	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-		68555-75-9	2022 GADSL
Observation	Polymer based on 67584-55-8		68555-90-8	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-2-Propenoic acid, 2-methyl-, 2-		68555-91-9	2022 GADSL
Observation	[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-2-Propenoic acid, 2-methyl-, 2-		68555-92-0	2022 GADSL
Observation	[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-chloro-1,3-butadiene, 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-		68568-77-4	2022 GADSL
Observation	[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, á-(2-methyl-1-oxo-2-propenyl)-ù-hydroxypoly(oxy-1,2-ethanediyl), á-(2-methyl-1-oxo-2-propenyl)-ù-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate, 2-	[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, á-(2-methyl-1-oxo-2-propenyl)-ù-hydroxypoly(oxy-1,2-ethanediyl), á-(2-methyl-1-oxo-2-propenyl)-ù-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate, 2-	68586-13-0	2022 GADSL
Observation	[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, telomer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, á-(2-methyl-1-oxo-2-propenyl)-ù-hydroxypoly(oxy-1,2-ethanediyl), á-(2-methyl-1-oxo-2-propenyl)-ù-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-		68586-14-1	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with TDI		68608-13-9	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]		68608-14-0	2022 GADSL
Observation	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-		68649-26-3	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-		68797-76-2	2022 GADSL
Observation	Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]oxy]phenyl]amino]carbonyl]-, potassium salt (1:1)		68815-72-5	2022 GADSL
Observation	2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-		68867-60-7	2022 GADSL



6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 1-octanethio		68867-62-9	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl		68877-32-7	2022 GADSL
Observation	Chromium, diaquatetrachloro[ $\eta$ -[N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]glycinato- $\epsilon$ O: $\epsilon$ O']]- $\eta$ -hydroxybis(2-propanol)di-		68891-98-5	2022 GADSL
Observation	2-Propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2-[[[(heptafluorooctyl)sulfonyl]methylamino]ethyl acrylate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(undecafluoropentyl)sulfonyl]a		68909-15-9	2022 GADSL
Observation	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		68957-32-4	2022 GADSL
Observation	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, ethyl ester		68957-53-9	2022 GADSL
Observation	1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, iodide (1:1)		68957-58-4	2022 GADSL
Observation	1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, hydrochloride (1:1)		68957-61-9	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)		70225-16-0	2022 GADSL
Observation	1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, sulfate (2:1)		70248-52-1	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamido, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-		70776-36-2	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[[[[2-methyl-5-[[[4-[methyl[(tridecafluorohexyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl ester (9CI)		70900-36-6	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, 2-[[[[5-[[[4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]butoxy]carbonyl]amino]2-methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol		70900-40-2	2022 GADSL
Observation	2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol		71487-20-2	2022 GADSL
Observation	1-Propanesulfonic acid, 3-[[[3-(dimethylamino)propyl][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-2-hydroxy-, sodium salt (1:1)		73772-32-4	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, acetate (1:1)		73772-33-5	2022 GADSL
Observation	1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-		73772-34-6	2022 GADSL
Observation	Benzene, 1-chloro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		76848-59-4	2022 GADSL
Observation	1H-Benzimidazolium, 1,3-diethyl-2-methyl-5-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, 4-methylbenzenesulfonate (1:1)		76848-68-5	2022 GADSL
Observation	1-Propanesulfonic acid, 3-[methyl[3-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]propyl]amino]-, sodium salt (1:1)		80621-17-6	2022 GADSL
Observation	1-Propanaminium, N-(2-hydroxyethyl)-3-[(2-hydroxy-3-sulfopropyl)[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-N,N-dimethyl-, hydroxide, sodium salt (1:1:1)		81190-38-7	2022 GADSL
Observation	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (1:1)		82382-12-5	2022 GADSL
Observation	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-propyl-		85665-64-1	2022 GADSL
Observation	Glycine, N-propyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)		85665-66-3	2022 GADSL
Observation	1-Hexanesulfinic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (2:1)		86525-30-6	2022 GADSL
Observation	Thiophene, 2-[2-[(tridecafluorohexyl)sulfonyl]ethenyl]-		86525-43-1	2022 GADSL
Observation	Furan, 2-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-		86525-48-6	2022 GADSL
Observation	Benzene, 1-methyl-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-		86525-51-1	2022 GADSL
Observation	Benzene, 1-methoxy-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-		86525-52-2	2022 GADSL

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Thiophene, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-		89863-48-9	2022 GADSL
Observation	Furan, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-		89863-49-0	2022 GADSL
Observation	Benzene, 1-methyl-4-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-		89863-50-3	2022 GADSL
Observation	Thiophene, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-		89863-55-8	2022 GADSL
Observation	Furan, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-		89863-56-9	2022 GADSL
Observation	2,4-Pentanedione, 3-[1-(2-thienyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-		89863-63-8	2022 GADSL
Observation	2,4-Pentanedione, 3-[1-(2-furanyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-		89863-64-9	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)		91081-99-1	2022 GADSL
Observation	Isoxazolidine, 4-(4-methoxyphenyl)-2-methyl-5-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-		93416-31-0	2022 GADSL
Observation	Sulfonic acids, C6-12-alkane, perfluoro		93572-72-6	2022 GADSL
Observation	Sulfonamides, C4-8-alkane, perfluoro, N-[4,7-dimethyl-4-[[1-methylpropylidene)amino]oxy]-3,5-dioxa-6-aza-4-silanon-6-en-1-yl]-N-ethyl		944578-05-6	2022 GADSL
Observation	Tetradecane, chloro derivs.		198840-65-2	IEC62474
Observation	Alkanes, C14-16, chloro		1372804-76-6	IEC62474
Observation	Boric acid (H3BO3), sodium salt (1:1)		14890-53-0	IEC62474
Observation	Phenol, nonyl-, branched		90481-04-2	IEC62474
Observation	4-(3-ethylheptan-2-yl)phenol		186825-39-8	IEC62474
Observation	4-(1,1,5-Trimethylhexyl)phenol		521947-27-3	IEC62474

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Isononylphenol		11066-49-2	IEC62474
Observation	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol		119-47-1	IEC62474
Observation	4,4'-oxydianiline and its salts		-	REACH SVHC
Observation	4-Nonylphenol, branched and linear		-	REACH SVHC
Observation	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)		-	REACH SVHC
Observation	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters		-	REACH SVHC
Observation	(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		852541-25-4	REACH SVHC
Observation	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		741687-98-9	REACH SVHC
Observation	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		852541-21-0	REACH SVHC
Observation	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		852541-30-1	REACH SVHC
Observation	(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		95342-41-9	REACH SVHC
Observation	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		1782069-81-1	REACH SVHC
Observation	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one		36861-47-9	REACH SVHC
Observation	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)		-	REACH SVHC
Observation	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate		255881-94-8	REACH SVHC

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	tris(2-methoxyethoxy)vinylsilane		1067-53-4	REACH SVHC
Observation	N-(hydroxymethyl)acrylamide		924-42-5	REACH SVHC
Observation	Triammonium triiron tetracitrate		52336-55-7	REACH AnnexXVII Restricted Substances
Observation	Ethanedioic acid, ammonium iron(3+) salt (3:3:1), trihydrate		13268-42-3	REACH AnnexXVII Restricted Substances
Observation	Titanate(2-), bis[ethanedioato(2-)-O,O']oxo-, diammonium, monohydrate, (SP-5-21)-		10580-03-7	REACH AnnexXVII Restricted Substances
Observation	Aluminate(2-), difluoro[phosphato(3-)-κO]-, ammonium hydrogen (1:1:1)		11095-65-1	REACH AnnexXVII Restricted Substances
Observation	Ferrate(2-), difluoro[phosphato(3-)-κO]-, ammonium hydrogen (1:1:1)		11095-66-2	REACH AnnexXVII Restricted Substances
Observation	Sulfuric acid, aluminum ammonium salt (2:1:1), tetracosahydrate		14725-69-0	REACH AnnexXVII Restricted Substances
Observation	Sulfuric acid, ammonium magnesium salt (3:2:2)		27733-50-2	REACH AnnexXVII Restricted Substances
Observation	Ammonium chromic sulfate dodecahydrate		10022-47-6	REACH AnnexXVII Restricted Substances
Observation	Sulfuric acid, ammonium sodium salt, dihydrate		7783-10-0	REACH AnnexXVII Restricted Substances
Observation	Sulfuric acid, ammonium magnesium salt (2:2:1), hexahydrate		7785-18-4	REACH AnnexXVII Restricted Substances
Observation	Cobalt ammonium complex		14695-95-5	REACH AnnexXVII Restricted Substances
Observation	Triammonium uranyl pentafluoride		12062-03-2	REACH AnnexXVII Restricted Substances
Observation	silicon carbide fibres (with diameter < 3 μm, length > 5 μm and aspect ratio ≥ 3:1)		409-21-2	CLP Regulations
Observation	dibenzo[def,p]chrysene; dibenzo[a,l]pyrene		191-30-0	CLP Regulations
Observation	tetrafluoroethylene		116-14-3	CLP Regulations
Observation	ipconazole (ISO); (1RS,2SR,5RS;1RS,2S-R,5SR)-2-(4-chloro-benzyl)-5-isopropyl-1-(1H-1,2,4-triazol-1-yl-methyl)cyclopentanol		125225-28-7	CLP Regulations

6. Substances added (Substances added to the List of Environmentally Harmful Substances Ver.7.3)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	diisooctyl phthalate		27554-26-3	CLP Regulations
Observation	2-methoxyethyl acrylate		3121-61-7	CLP Regulations
Observation	phenylhydrazine [1]		100-63-0	CLP Regulations
Observation	dimethomorph (ISO); (E,Z)- 4-(3-(4-chlorophenyl)- 3-(3,4-dimethoxyphenyl) acryloyl)morpholine		110488-70-5	CLP Regulations
Observation	flurochloridone (ISO); 3-chloro-4-(chloro-methyl)-1-[3-(trifluoromethyl)phenyl]pyrrolidin-2-one		61213-25-0	CLP Regulations
Observation	3-methylpyrazole		1453-58-3	CLP Regulations
Observation	bis(α,α-dimethylbenzyl) peroxide		80-43-3	CLP Regulations

**7. Substances for which classification has changed (substances for which classification has changed from Ver. 7.2a to Ver. 7.3)**

Substance	Substance (in Japanese)	CAS-No.	Reason for revision (Ver 7.3)	List Ver 7.3 Management Classification	List Ver 7.2a Management Classification
not applicable					



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Perfluorooctanoic acid		335-67-1	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluorooctanoate (conjugate base of the free acid)		45285-51-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Branched perfluorooctanoic acid		90480-55-0	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,2,3,4,5,5,6,6- nonafluoro-3,4- bis(trifluoromethyl)-		1882109-81-0	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,3,3,4,4,5,6,6- nonafluoro-2,5- bis(trifluoromethyl)-		1882109-80-9	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,2,3,3,4,5,5,6,6- decafluoro-4- (1,1,2,2,2- pentafluoroethyl)-		1882109-79-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,2,3,4,4,5,5,6,6- decafluoro-3- (1,1,2,2,2- pentafluoroethyl)-		1882109-78-5	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,3,3,4,4,5,5,5- octafluoro-2- (1,1,2,2,3,3,3- heptafluoropropyl)-		1882109-77-4	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,3,3,4,4,5,5,5- octafluoro-2-[1,2,2,2- tetrafluoro-1- (trifluoromethyl)ethyl ]-		1882109-76-3	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,2,3,5,5,5- hexafluoro-3,4,4- tris(trifluoromethyl)-		1882109-75-2	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,2,4,5,5,5- hexafluoro-3,3,4- tris(trifluoromethyl)-		1882109-74-1	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,3,3,5,5,5- hexafluoro-2,4,4- tris(trifluoromethyl)-		1882109-73-0	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance

## 8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Pentanoic acid, 2,3,4,5,5,5- hexafluoro-2,3,4- tris(trifluoromethyl)-		1882109-72-9	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,4,4,5,5,5- hexafluoro-2,3,3- tris(trifluoromethyl)-		1882109-71-8	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 3,3,4,5,5,5- hexafluoro-2,2,4- tris(trifluoromethyl)-		1882109-70-7	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,2,3,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-4- (trifluoromethyl)-		1882109-68-3	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,2,4,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-3- (trifluoromethyl)-		1882109-67-2	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,3,4,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-2- (trifluoromethyl)-		1882109-66-1	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,3,3,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-4- (trifluoromethyl)-		1882109-65-0	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 2,3,4,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-3- (trifluoromethyl)-		1882109-64-9	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 3,3,4,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-2- (trifluoromethyl)-		1882109-63-8	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 3,4,4,5,5,5- hexafluoro-2,2,3- (trifluoromethyl)-		1882109-69-4	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanoic acid, 4,4,4- trifluoro-2,2,3,3- tetrakis(trifluorometh yl)-		1882109-62-7	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Butanoic acid, 2,3,4,4,4-pentafluoro- 2-[1,2,2,2- tetrafluoro-1- (trifluoromethyl)ethyl ]-3-(trifluoromethyl)-		1882109-61-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanoic acid, 2,3,3,4,4,4- hexafluoro-2-[2,2,2- trifluoro-1,1- bis(trifluoromethyl)et hyl]-		1882109-60-5	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanoic acid, 3,3,4,4,4-pentafluoro- 2-[1,2,2,2- tetrafluoro-1- (trifluoromethyl)ethyl ]-2-(trifluoromethyl)-		1882109-59-2	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanoic acid, 3,3,4,4,4-pentafluoro- 2,2-bis(1,1,2,2,2- pentafluoroethyl)-		1882109-58-1	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,2,4,4,5,5,6,6,6- nonafluoro-3,3- bis(trifluoromethyl)-		1812247-20-3	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,3,3,4,5,5,6,6,6- nonafluoro-2,4- bis(trifluoromethyl)-		1812247-19-0	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,3,4,4,5,5,6,6,6- nonafluoro-2,3- bis(trifluoromethyl)-		1812247-18-9	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 3,3,4,4,5,5,6,6,6- nonafluoro-2,2- bis(trifluoromethyl)-		1812247-17-8	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,2,3,3,5,5,6,6,6- nonafluoro-4,4- bis(trifluoromethyl)-		1192593-79-5	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,2,3,3,4,5,6,6,6- nonafluoro-4,5- bis(trifluoromethyl)-		1144512-36-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,2,3,4,4,5,6,6,6- nonafluoro-3,5- bis(trifluoromethyl)-		1144512-35-5	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Hexanoic acid, 2,2,3,3,4,4,6,6,6- nonafluoro-5,5- bis(trifluoromethyl)-		1144512-34-4	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7 -dodecafluoro-4- (trifluoromethyl)-		1144512-18-4	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7 -dodecafluoro-5- (trifluoromethyl)-		909009-42-3	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7 -dodecafluoro-3- (trifluoromethyl)-		705240-04-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7 -dodecafluoro-2- (trifluoromethyl)-		207678-51-1	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Isooctanoic acid, pentadecafluoro-		123116-17-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2- (1,1,2,2,2- pentafluoroethyl)-		35605-76-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7 -dodecafluoro-6- (trifluoromethyl)-		15166-06-0	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Ammonium salt, linear/branched PFOA (Octanoic acid, pentadecafluoro-, branched, ammonium salt)		90480-56-1	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-, ammonium salt (1:1)		3825-26-1	25ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-, sodium salt (1:1)		335-95-5	25ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-, potassium salt (1:1)		2395-00-8	25ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-, silver(1+) salt (1:1)		335-93-3	25ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-, chromium(3+) salt (3:1)		68141-02-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Ethanaminium, N,N,N- triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluorooctan oate (1:1)		98241-25-9	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2- (1,1,2,2,2- pentafluoroethyl)-, ammonium salt (1:1)		13058-06-5	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2- (1,1,2,2,2- pentafluoroethyl)-, sodium salt (1:1)		1195164-59-0	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7 -dodecafluoro-6- (trifluoromethyl)-, ammonium salt (1:1)		19742-57-5	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7 -dodecafluoro-6- (trifluoromethyl)-, iron salt (1:x)		61436-04-2	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7 -dodecafluoro-6- (trifluoromethyl)-, potassium salt (1:1)		29457-73-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7 -dodecafluoro-6- (trifluoromethyl)- , sodium salt (1:1)		18017-22-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7 -dodecafluoro-6- (trifluoromethyl)-, chromium salt (1:x)		15739-82-9	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7 -dodecafluoro-6- (trifluoromethyl)-, aluminum salt (3:1)		15715-47-6	PFOA25ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C7-13, perfluoro		68333-92-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C7-19, perfluoro		91032-01-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C7-13, perfluoro, ammonium salts		72968-38-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-, methyl ester		376-27-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-, ethyl ester		3108-24-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-, 1,1'-anhydride		33496-48-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphinic acid, bis(perfluoro-C6-12- alkyl) derivs.		68412-69-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphinic acid, bis(perfluoro-C6-12- alkyl) derivs., aluminum salts		93062-53-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Bis(perfluorooctyl)pho sphinic acid		40143-79-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Perfluorohexylperfluorooctyl phosphinate		610800-34-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		335-66-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluorooctyl iodide		507-63-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafuoro-11-iodo-		307-50-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-12-iodo-		307-60-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-14-iodo-		307-63-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacontafuoro-15-iodo-		335-79-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafuoro-13-iodo-		376-04-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-10-iodo-		423-62-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-9-iodo-		558-97-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Decane, 1,1,1,2,3,3,4,4,5,5,6,6 ,7,7,8,8,9,9,10,10- eicosafuoro-10-iodo- 2-(trifluoromethyl)-		677-93-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6 ,7,7,8,8,9,9,10,10,11, 11,12,12- tetracosafuoro-12- iodo-2- (trifluoromethyl)-		3248-61-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6 ,7,7,8,8,9,9,10,10,11, 11,12,12,13,13,14,14 -octacosafuoro-14- iodo-2- (trifluoromethyl)-		3248-63-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 1-bromo- 1,1,2,2,3,3,4,4,5,5,6,6 ,7,7,8,8,9,9,10,10,10- heneicosafuoro-		307-43-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C6-18, perfluoro		90622-71-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-10- iodo-		2043-53-0	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to FDA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10- heneicosafuoro-12- iodo-		2043-54-1	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to FDA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10,1 1,11,12,12- pentacosafuoro-14- iodo-		30046-31-2	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to FDA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10,1 1,11,12,12,13,13,14, 14-nonacosafuoro- 16-iodo-		65510-55-6	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9- nonadecafluoro-11- iodo-		65510-56-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C4-20, γ -ω-perfluoro		68188-12-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C10-12, γ-ω-perfluoro		68390-33-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
8:2 Fluorotelomer olefin		21652-58-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecene, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		30389-25-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,13,13,14,14,15,15,1 6,16,16- nonacosafuoro-		60699-51-6	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to	PFOA listed in European POPs Regulation	GADSL compliance
1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,13,13,14,14,14- pentacosafuoro-		39239-77-5	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		865-86-1	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-		678-39-7	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,12, 12-eicosafuoro-		70887-94-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		53826-13-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,10- hexadecafluoro-		70887-84-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-		27854-31-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,13,13 ,13-eicosafuoro-12- (trifluoromethyl)-, 1- (dihydrogen phosphate)		63295-27-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,14,15,15,15- tetracosafuoro-14- (trifluoromethyl)-, 1- (dihydrogen phosphate)		63295-28-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,14,14,15,15,16,17 ,17,17- octacosafuoro-16- (trifluoromethyl)-, 1- (dihydrogen phosphate)		63295-29-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,13- heneicosafuoro-, 1- (dihydrogen phosphate)		94158-70-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,13- heneicosafuoro-, 1- (dihydrogen phosphate), diammonium salt		94200-46-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13, 13,14,14,15,15,15- pentacosafuoro-, 1- (dihydrogen phosphate), diammonium salt		94200-47-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13, 13,14,14,15,15,16,16, 17,17,17- nonacosafuoro-, 1- (dihydrogen phosphate), diammonium salt		94200-48-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,13,13, 13-eicosafuoro-12- (trifluoromethyl)-, 1- (dihydrogen phosphate), diammonium salt		94200-50-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13, 13,14,15,15,15- tetracosafuoro-14- (trifluoromethyl)-, 1- (dihydrogen phosphate), diammonium salt		94200-51-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13, 13,14,14,15,15,16,17, 17,17- octacosafuoro-16- (trifluoromethyl)-, 1- (dihydrogen phosphate), diammonium salt		94200-52-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
8:2 Fluorotelomer phosphate monoester		57678-03-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
8:2 Fluorotelomer phosphate diester		678-41-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluoro-, dihydrogen phosphate, diammonium salt		93857-44-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro- , 1-(dihydrogen phosphate)		57678-05-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro- , 1,1'-(hydrogen phosphate)		1895-26-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,14,14,15,15,16,17 ,17,17- octacosafuoro-2- hydroxy-16- (trifluoromethyl)hepta decyl ester		16083-78-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,13,13,14,14,15,15,1 6,16,16- nonacosafuorohexad ecyl ester		4980-53-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,13,13,14,14,14- pentacosafuorotetrad ecyl ester		6014-75-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,14,15,15,15- tetracosafuoro-2- hydroxy-14- (trifluoromethyl)penta decyl ester		16083-87-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,13,14,14,14- tetracosafuoro-13- (trifluoromethyl)tetra decyl ester		52956-82-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,12,12,1 2-eicosafuoro-11- (trifluoromethyl)dode cyl ester		74256-14-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12, 13,14,14,14-tetracosafuoro-13- (trifluoromethyl)tetradecyl ester		74256-15-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-(Perfluorodecyl) ethyl acrylate		17741-60-5	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
2-(Perfluorodecyl) ethyl methacrylate		2144-54-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
8:2 Fluorotelomer acrylate		27905-45-9	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
8:2 Fluorotelomer methacrylate		1996-88-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl esters		85631-54-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12, 13,13,14,14,15,16,16, 16-octacosafuoro-15- (trifluoromethyl)hexadecyl ester		91615-22-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16, 16,17,18,18,18-dotriacontafuoro-17- (trifluoromethyl)octadecyl ester		94158-63-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,12, 13,13,14,14,15,16,16, 16-octacosafuoro-15- (trifluoromethyl)hexadecyl ester		94158-64-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafluoro-17-(trifluoromethyl)octadecyl ester		94158-65-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl) amino]-, inner salt		93776-12-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N-(2-carboxyethyl)-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-2-hydroxytridecyl) amino] -N,N-dimethyl-, inner salt		93776-13-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-		94159-83-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-		94159-79-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-		94159-80-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Pentadecanol, 1- [[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13, 13,14,15,15,15- tetracosafuoro-14- (trifluoromethyl)-		94159-82-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
8:2 Fluorotelomer stearate monoester		99955-83-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanedioic acid, 3- [2-[(3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,10- heptadecafluorodecyl) oxy]-2-oxoethyl]-3- hydroxy-, 1,5-bis(3,3, 4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10- heptadecafluorodecyl) ester		302911-86-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluorooctylethyldic chloromethyl silane		3102-79-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluorooctylethyldi methylchlorosilane		74612-30-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluorooctylethyltri thoxysilane		101947-16-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluorooctylethyltri chlorosilane		78560-44-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluorooctylethyltri methoxysilane		83048-65-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Propanamide, 3-[(γ-ω -perfluoro-C4-10- alkyl)thio] derivatives		68187-42-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thiols, C8-20, γ-ω- perfluoro, telomers with acrylamide		70969-47-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Carbamic acid, [2- (sulphothio)ethyl]-, C- (γ-ω-perfluoro-C6-9- alkyl) esters, monosodium salts		95370-51-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C4-10-alkyl)thio]methyl] derivatives, phosphates, ammonium salts		148240-85-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivatives, phosphates, ammonium salts		148240-87-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts		148240-89-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-[(γ-ω-perfluoro-C8-20-alkyl)thio]propyl] ethers		183146-60-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio]derivs., compds. with diethanolamine		71608-61-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)		94200-45-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Pentadecanol, 1,1'-[oxybis[(1-methyl-2,1-ethanediyl)oxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-		93776-00-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		115592-83-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate		129783-45-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl) carbamate and $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate		144031-01-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-[(2-methyl-1-oxo-2-propenyl)oxy]poly(ox $\gamma$ -1, 2-ethanediyl), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15		116984-14-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Poly[2-(perfluorooctyl)ethyl acrylate]		74049-08-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate		65104-45-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, polymer with 2-propenoic acid		53515-73-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Amides, C7-19, α-ω-perfluoro-N,N-bis(hydroxyethyl)		90622-99-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)-, inner salt		71356-38-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, perfluoro-C8-16-alkyl esters		85681-64-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethylmethacrylate, Me methacrylate and perfluoro-C8-14-alkyl acrylate		125328-29-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphine, tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]-		325459-92-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Palladium, dichlorobis[tris[4-(3, 3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluorodecyl) phenyl]phosphine-κP] -		326475-46-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N- (2-carboxyethyl)-N,N- bis(2-hydroxyethyl)- 3- [(2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluoro-1- oxooctyl)amino]-, inner salt		39186-68-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, N-[3- [bis(2- hydroxyethyl)amino]p ropyl]- 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-		41358-63-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzenesulfonyl chloride, 3,4- bis[(2,2,3,3,4,4,5,5,6, 6,7,7,8,8,8- pentadecafluoro-1- oxooctyl)amino]-		24216-05-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1- Propanaminium,N,N,N -trimethyl-3- [(2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluoro-1- oxooctyl) amino]-, chloride (1:1)		53517-98-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, N-(3- aminopropyl)- 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-		85938-56-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanesulfonic acid,3-[ethyl (2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluoro-1- oxooctyl)amino]- ,sodium salt (1:1)		89685-61-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonene, heptadecafluoro-1- [(2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyl) oxy]-		84029-60-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
N-Ethyl- 1,1,2,2,3,3,4,4,5,5,6,6 ,7,7,8,8,8- heptadecafluoro-1- octanesulfonamide, N- Ethylperfluorooctane- 1-sulfonamide		4151-50-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		2043-52-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-8- iodo-		10258-49-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		25291-12-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-		169331-74-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Nonene, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,9- pentadecafluoro-		25431-45-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-		38787-57-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		25431-48-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		918-32-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		38787-66-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-		109856-51-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Tricosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-		57325-44-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Decene, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,10- pentadecafluoro-, (E)- (9CI)		89889-22-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Nonanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,9- pentadecafluoro-		755-02-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,10- pentadecafluoro-		25600-66-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		25431-52-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Octanamine, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-		307-29-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Octanol, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-		307-30-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tricosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		57325-43-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Octanamine, 2,2,3,3,4,4,5,5,6,6,7,7 ,8,8,8- pentadecafluoro-, hydrochloride(1:1)		5678-75-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,10- pentadecafluoro-2- iodo-		16083-64-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentacosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7- pentadecafluoro-9- iodo-		2837-34-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

## 8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
5-Tridecene, 7,7,8,8,9,9,10,10,11,11, 1,12,12,13,13,13- pentadecafluoro-		52717-05-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanenitrile, 2,2,3,3,4,4,5,5,6,6,7,7, ,8,8,8- pentadecafluoro-		647-12-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
6-Tetradecene, 8,8,9,9,10,10,11,11,11, 2,12,13,13,14,14,14- pentadecafluoro-		38787-60-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanal, 2,2,3,3,4,4,5,5,6,6,7,7, ,8,8,8- pentadecafluoro-		335-60-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,1-Octanediol, 2,2,3,3,4,4,5,5,6,6,7,7, ,8,8,8- pentadecafluoro-		31185-69-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
8-Heptadecene, 1,1,1,2,2,3,3,4,4,5,5,6, ,6,7,7- pentadecafluoro-		52717-06-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Nonanone, 3,3,4,4,5,5,6,6,7,7,8,8, ,9,9,9- pentadecafluoro-		754-85-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Nonanol, 3,3,4,4,5,5,6,6,7,7,8,8, ,9,9,9- pentadecafluoro-2- methyl-		92914-88-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoyl chloride, 2,2,3,3,4,4,5,5,6,6,7,7, ,8,8,8- pentadecafluoro-		335-64-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decanoic acid, 4,4,5,5,6,6,7,7,8,8,9,9, ,10,10,10- pentadecafluoro-		812-70-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoyl bromide, 2,2,3,3,4,4,5,5,6,6,7,7, ,8,8,8- pentadecafluoro-		222037-87-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanimidamide, 2,2,3,3,4,4,5,5,6,6,7,7, ,8,8,8- pentadecafluoro-		307-31-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Nonanoic acid, 3,3,4,4,5,5,6,6,7,7,8, 9,9,9- pentadecafluoro-		45291-33-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic-1,2-13C2 acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-		864071-08-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic-1-13C acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro- (9CI)		864071-09-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluorooctan oate (1:1)		927835-01-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-, potassium salt,hydrate (1:1:2)		98065-31-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
7- Hexadecene,1,1,1,2,2, 3,3,4,4,5,5,6,6,9,9,10, 10,11,11,12,12,13,13, 14,14,15,15,16,16,16 -triacontafluoro-, (E)- (9CI)		51249-68-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octane, 1,1,1,2,2,3,3,4,4,5,5,6, 6,7,7- pentadecafluoro-8-(2- propen-1-yloxy)-		812-72-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Oxirane, 2- (2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyl) -		20084-49-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Nonanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,9- pentadecafluoro-		27607-61-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-		423-54-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Octanamine, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-N- (2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyl) -		3145-68-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-, butyl ester		307-96-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanimidamide, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-N- hydroxy-		4314-38-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-, 2- propen-1-ylester		20120-44-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-, ethenyl ester		307-93-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluorooctyl ester		307-98-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pyridinium, 1- (2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyl) -, 1,1,1- trifluoromethanesulfo nate (1:1)		25061-59-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluorooctyl ester		3934-23-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanaminium, N- (carboxymethyl)- 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10- pentadecafluoro-N,N- dimethyl-, inner salt		171184-15-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluorooctyl ester		111918-97-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Methanesulfonic acid, 1,1,1-trifluoro-, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluorooctyl ester		17352-09-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-N- hydroxy-		15435-88-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro- ,3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl ester		886046-97-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzeneethanamine, N- (2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyli dene)-		29723-33-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenamide, N- (2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyl) -		424-01-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, N-butyl- 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-		37696-83-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzoic acid, 4- [(2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyl) oxy]-		129560-87-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, N- dodecyl- 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-		37696-86-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzoic acid, 4- [(2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- pentadecafluorooctyl) amino]-		73782-58-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8- pentadecafluoro-N-(2- hydroxypropyl)-		1407514-44-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

## 8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Benzoic acid, 4-hydroxy-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctylester		869308-35-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Octanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, 1-(4-methylbenzenesulfonate)		24962-65-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, N-[4-(dimethylamino)butyl]- 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		118454-01-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2E)-, bis(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl) ester (9CI)		24120-18-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, (4-ethenylphenyl)methyl ester		230295-06-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N,N,N-trimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, iodide (1:1)		335-90-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-[3-(triethoxysilyl)propyl]-		37043-12-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3,5,2,4,6-Triazatriphosphorine, 2,2,4,4,6,6-hexahydro-2,2,4,4,6,6-hexakis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]- (9CI)		186043-52-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-[2-(2-hydroxyethoxy)ethyl]-		110388-02-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Octanamide, N,N'-trimethylenebis[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-(8CI)		29680-98-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3,5,2-Triazaphosphorine, 2,2-diazido-2,2-dihydro-4,6-bis(pentadecafluoroheptyl)- (9CI)		95215-99-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphinous amide, N-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)-P,P-bis(pentafluorophenyl)- (9CI)		518358-34-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
[1,1'-Biphenyl]-4-carboxylic acid, 4'-(2-methylbutyl)-,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, (S)- (9CI)		118826-52-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-(4-methoxyphenyl)-		103188-04-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, N,N'-(1R,2R)-1,2-cyclohexanediylbis[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-(9CI)		864149-62-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octanamide, N,N'-1,2-cyclohexanediylbis[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-		305848-92-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrachloro-, 1,2-bis(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl) ester		2212-77-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, inner salt		90179-39-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Octanoic acid, pentadecafluoro-, mixed esters with 2,2'-[1,4-butanediylbis(oxymethylene)]bis[oxirane] and 2,2'-[1,6-hexanediylbis(oxymethylene)]bis[oxirane]		90480-57-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Poly(oxy-1,2-ethanediyl), α-[2-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethyl]-ω-hydroxy-		93480-00-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluorononyl ester		1799-55-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, inner salt		5158-52-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, homopolymer		29014-57-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Methanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)		32609-65-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Nonanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluoro-, dihydrogenphosphate, diammonium salt (9CI)		63439-39-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzenesulfonyl chloride, [[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]methyl]-, branched and linear		90218-71-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoroundecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluorononyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafuorotridecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate(9CI)		105656-07-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecylester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoroundecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluorononyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafuorotridecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate (9CI)		105681-94-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)		277749-00-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 1,1,2,2,3,3,3-heptafluoropropyl ester, polymer with methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-pentadecafluorononyl 2-methyl-2-propenoate and 1,1,2,2,2-pentafluoroethyl 2-		1017277-36-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Cyclotetrasiloxane, 2-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecyl)-2,4,6,8-tetramethyl-, Si-[3-(oxiranylmethoxy)propyl] derivs		206886-57-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Poly(oxy-1,2-ethanediyl), .alpha.-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)-.omega.-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)oxy]-		122402-79-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, C16-18-alkyl esters, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl acrylate		160336-09-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, methyl ester, telomere with 1-dodecanethiol, 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 2-Propenoic acid		321318-71-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl group]-terminated, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol- and 2-hydroxyethyl acrylate-blocked 2,4-TDI-trimethylolpropane		501098-09-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Trisiloxane, 3,3'-(3,3,4,4,5,5,6,6,7,7,8,8-dodecafluoro-1,10-decanediyl)bis[3-[(dimethylsilyl)oxy]-1,1,5,5-tetramethyl-, reaction products with 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-1-undecene		185701-89-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol		125476-71-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Poly[[1,3-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-1,3:1,3-disiloxanediylidene]-1,3-		161045-59-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,5-Trisiloxanediol, 3-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-1,1,3,5,5-pentamethyl- (9CI)		165320-75-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluoroalkylethyl acrylates (C6-C14)		85631-54-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 10-bromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		21652-57-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		38550-35-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,9,9,9-octadecafluoro-8-iodo-		922524-04-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decyne, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		55009-88-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Dodecane, 12-bromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafiuoro-		332136-76-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 9,10-dibromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		51249-63-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		99325-00-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		92835-74-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		96791-81-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,11,11,12,12,12-docosafluoro-9-iodo-		641617-25-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,11,11,12,12,13,13,14,14,14-hexacosafiuoro-		53638-09-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 9,9,10-tribromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		59665-26-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecane, 11,12-dibromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafiuoro-		214358-54-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-		176979-17-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decene, 2-bromo-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		51249-65-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



## 8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-10- iodo-		1257261-93-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,11,11,12,12 ,13,13,14,14,14- hexacosafuoro-9- iodo-		53638-13-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decene, 2-chloro- 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-		110927-73-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanamine, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-		30670-30-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Docosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-10- iodo-		176979-18-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-10- iodo-		1257261-94-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-10- iodo-		176979-19-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10- heneicosafuoro-12- iodo-		1257261-91-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-10- iodo-		1257261-95-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanethiol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-		34143-74-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,11- heptadecafluoro-2- iodo-		38550-45-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Silane, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) bis(1-methylethyl)-		356056-15-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluoro-2- methyl-		136022-91-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decanal, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluoro-		135984-68-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanethiol, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		34451-28-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, trichloro(3,3,4,4,5,5,6, 6,7,7,8,8,9,9,10,10,1 1,11,12,12,12- heneicosafuorododec yl)-		102488-49-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Tridecanol, 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13 13,13- heneicosafuoro-2- iodo-		38550-46-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decene, 1,2,3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,10- nonadecafluoro-1- iodo-,(Z)- (9CI)		56184-40-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,11- heptadecafluoro-		94159-84-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecanal, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		864551-38-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,11,11,12, 12,12- heneicosafuorododec yl)bis(1-methylethyl)-		356056-16-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Docosane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-tetratriacontafluoro-10,13-diiodo-		460744-98-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Eicosane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,14,14,15,15,16,16,17,17,18,18,19,19,20,20,20-triacontafluoro-9,12-diiodo-		25474-72-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
5-Tetradecene,1,1,1,2,2,3,3,4,4,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-hexacosafuoro-, (E)-(9CI)		51249-69-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetracosane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,24-tetratriacontafluoro-10,15-diiodo-		959462-52-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heneicosane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,21-tetratriacontafluoro-10,12-diiodo-		1254971-75-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)trimethoxy-		123445-18-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silanamine, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-N,N,1,1-tetramethyl-		1221157-06-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
6-Tetradecene, 1,1,1,2,2,3,3,4,4,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-		53638-14-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,4-Butanediol, 2-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)-		135440-42-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
8-Hexadecene, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-triacontafluoro-, (E)-(9CI)		35709-15-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decanoyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		64018-23-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Heptacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,27-dotetracontafluoro-12,16-diiodo-		784189-62-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-dotetracontafluoro-12,17-diiodo-		1980064-30-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,26-dotetracontafluoro-12,15-diiodo-		1980086-18-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silanediamine, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-N,N,N',N',1-pentamethyl-		186599-47-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphinic acid, P-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-		731858-13-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl)-		146090-84-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Dodecanoyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		64018-26-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Decenal, 3,4,4,5,5,6,6,7,7,8,8,9 9,10,10,10- hexadecafluoro-, (2Z)-		142502-68-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphinic acid, P- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,11,11,12, 12,12- heneicosafuorododec yl)-		731858-15-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silanetriamine, 1- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -N,N,N',N',N'',N''- hexamethyl-		186599-45-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8 9,9,10,10,10- heptadecafluoro-2- methyl-		136022-86-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) tripropoxy-		521084-64-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, P- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -		80220-63-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanol, 3- [(3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) thio]-		36880-07-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -, sodium salt (9CI)		92678-93-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) tris(1-methylethoxy)-		246234-80-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

## 8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -, compd. with N,N- diethylethanamine (1:1) (9CI)		92678-96-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Ethanol, 2- [(3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) amino]-		27607-42-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Dodecenal, 3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,11,11,12,12, 12-eicosafuoro-		864551-40-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Dodecenal, 3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,11,11,12,12, 12-eicosafuoro-, (2Z)-		1383918-01-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Disiloxane, 1,3- bis(3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,10- heptadecafluorodecyl) -1,1,3,3-tetramethyl-		129498-18-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, P- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,11,11,12, 12,12- heneicosafuorododec yl)-		252237-39-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3-Undecen-2-one, 4,5,5,6,6,7,7,8,8,9,9,1 0,10,11,11,11- hexadecafluoro-, (Z)- (9CI)		136909-85-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Oxirane, 2- (2,2,3,3,4,4,5,5,6,6,7, 7,8,8,9,9,9- heptadecafluorononyl )-		38565-53-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -, dimethyl ester (9CI)		61726-43-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 1,1,1,2,2,3,3,4,4,5,5,6, 6,7,7,8,8- heptadecafluoro-10- isocyanato-		142010-50-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Benzene, 1-bromo-4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-		195324-88-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		27619-90-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Oxirane, 2-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)-		52835-16-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 10,10-diethoxy-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-		133377-48-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzene, 1-bromo-3-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-		340157-97-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafuorododecyl)-, dimethyl ester (9CI)		61726-45-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Oxirane, 2-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heneicosafuoroundecyl)-		38565-54-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-		39108-34-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Ethanol, 2,2'-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)imino]bis-		27607-36-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzenemethanol, 4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-		356055-77-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Benzenemethanamine , 4- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -		609816-23-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-10- [(3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,10- heptadecafluorodecyl) thio]-		96497-21-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Dodecane, 12-azido- 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10- heneicosafuoro-		145876-00-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanesulfonyl chloride,3,3,4,4,5,5,6, 6,7,7,8,8,9,9,10,10,11 ,11,12,12,12- heneicosafuoro-		27619-91-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-, 1- (hydrogen sulfate), potassium salt (1:1)		1262446-13-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro- , 1-(dihydrogen phosphate), ammonium salt (1:2)		93857-45-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-, 1- acetate		37858-04-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, P- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -, diethyl ester		90146-96-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		120226-60-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro- , 1-(hydrogen sulfate), potassium salt (1:1)		1262446-14-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Ethanethioic acid, S- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) ester		125640-21-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
8,10- Heptadecanedione,1,1 ,1,2,2,3,3,4,4,5,5,6,6, 7,7,11,11,12,12,13,13 ,14,14,15,15,16,16,17 ,17,17- triacontafuoro- Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,11,11,12, 12,12- heneicosafuorododec yl)-, diethyl ester (9CI)		36554-97-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanaminium, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-N,N- bis(2-hydroxyethyl)- N-methyl-, iodide (1:1)		31841-41-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Disulfide, bis(3,3,4,4,5,5,6,6,7,7 ,8,8,9,9,10,10,10- heptadecafluorodecyl)		42977-21-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) , bis(1-methylethyl) ester (9CI)		90183-56-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphinic acid, bis(heptadecafluoroooc tyl)-, sodium salt (9CI)		500776-69-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Decane, 10- (ethenylsulfonyl)- 1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8- heptadecafluoro-		93345-48-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

## 8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-fluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester		96250-52-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pyridinium, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-, iodide (1:1)		25935-14-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pyridinium, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-, 4-methylbenzenesulfonate (1:1)		61798-68-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl ester		15498-45-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:1)		93776-20-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:1)		93776-21-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-, 1,1',1''-phosphate		149790-22-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phenol, 4-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)thio]-		142623-70-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, phosphate (3:1) (9CI)		106554-16-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Phosphine, [4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)phenyl]diphenyl-		462996-04-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2Z)-, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) ester		54950-04-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2E)-, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) ester (9CI)		86130-60-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzoic acid, 4-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]-		188034-84-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2,8,9-Trioxa-5-aza-1-silabicyclo[3.3.3]undecane, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-1-iododecyl)-		135587-17-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid, 1-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluorooctyl) ester		152682-85-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2Z)-, 1-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluorooctyl) ester		229957-05-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzenemethanol, 4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)- $\alpha,\alpha$ -diphenyl-		649561-66-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Iodine, bis(acetato- $\beta$ O)[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)phenyl]- (9CI)		882186-02-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluoro-, 1- (4- methylbenzenesulfon		113823-56-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphine, bis[4- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) phenyl]phenyl-		892154-91-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- [(1,1,2,2,3,3,4,4,5,5,6, 6,7,7,8,8,8- heptadecafluorooctyl) methylamino]ethyl ester		93491-54-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanedioic acid, 2- methylene-, 1,4- bis(1,1,2,2,3,3,4,4,5,5, 6,6,7,7,8,8,8- heptadecafluorooctyl) ester		243977-25-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Glycine, N-[3- [(3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) thio]-2- hydroxypropyl]-N- methyl-		93128-66-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphine, tris[3- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) phenyl]-		342889-38-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzene, 1-[chloro[4- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) phenyl]phenylmethyl] -4-methoxy-		865758-37-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3-Pyridinecarboxylic acid, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluorodecyl ester		331716-84-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2Z)-, 1,4- bis(1,1,2,2,3,3,4,4,5,5, 6,6,7,7,8,8,8- heptadecafluorooctyl) ester		234096-30-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Butenedioic acid (2E)-, 1,4- bis(1,1,2,2,3,3,4,4,5,5, ,6,6,7,7,8,8,8- heptadecafluorooctyl) ester		934166-50-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzenesulfonamide, 4- [(1,1,2,2,3,3,4,4,5,5,6, ,6,7,7,8,8,8- heptadecafluorooctyl) oxy]-		89932-76-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzene, 1- [(3,3,4,4,5,5,6,6,7,7,8, ,8,9,9,10,10,11,11,12, 12,12- heneicosafuorododec yl)sulfonyl]-4- (hexyloxy)-		1161917-33-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzene, 1- [chlorobis(4- methoxyphenyl)meth yl]-4- (3,3,4,4,5,5,6,6,7,7,8, ,8,9,9,10,10,10- heptadecafluorodecyl)		865758-36-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Benzenemethanol, 4- (3,3,4,4,5,5,6,6,7,7,8, ,8,9,9,10,10,10- heptadecafluorodecyl) -α,α-bis(4- methoxyphenyl)-		865758-47-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Palladium, dichlorobis[tris[3- (3,3,4,4,5,5,6,6,7,7,8, ,8,9,9,10,10,10- heptadecafluorodecyl) phenyl]phosphine-β P]-		343343-17-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- [[[(3,3,4,4,5,5,6,6,7,7, ,8,8,9,9,10,10,10- heptadecafluorodecyl) sulfonyl]methylamino ]ethyl ester		48077-95-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- [[[(3,3,4,4,5,5,6,6,7,7, ,8,8,9,9,10,10,11,11,1 2,12,12- heneicosafuorododec yl)sulfonyl]methylami no]ethyl ester		72276-05-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
β-D- Glucopyranosiduronic acid, 3,3,4,4,5,5,6,6,7,7,8,8, ,9,9,10,10,10- heptadecafluorodecyl		864551-34-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Carbonic acid, 2,5-dioxo-1-pyrrolidinyl [4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]methylester		556050-49-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thymidine, 5'-O-[[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]bis(4-methoxyphenyl)methyl]-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphor amidite]		902456-09-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Cytidine, N-benzoyl-2'-deoxy-5'-O-[[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]bis(4-methoxyphenyl)methyl]-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphor amidite]		1401422-19-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Guanosine, 2'-deoxy-5'-O-[[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl](4-methoxyphenyl)phenylmethyl]-N-(2-methyl-1-oxopropyl)-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphor amidite]		1401422-22-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Guanosine, 2'-deoxy-5'-O-[[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]bis(4-methoxyphenyl)methyl]-N-(2-methyl-1-oxopropyl)-, 3'-[2-cyanoethyl N,N-bis(1-methylethyl)phosphor amidite]		1401422-21-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octane, 1,1,1,2,3,3,4,4,5,5,6,6-dodecafluoro-8-iodo-2-(trifluoromethyl)-		18017-20-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Octanol, 3,3,4,4,5,5,6,6,7,8,8-dodecafluoro-7-(trifluoromethyl)-		20015-46-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Nonanol, 4,4,5,5,6,6,7,7,8,9,9,9 -dodecafluoro-2-iodo- 8-(trifluoromethyl)-		16083-62-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Nonanol, 1-amino- 4,4,5,5,6,6,7,7,8,9,9,9 -dodecafluoro-8- (trifluoromethyl)-		58935-89-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Oxirane, 2- [2,2,3,3,4,4,5,5,6,7,7, 7-dodecafluoro-6- (trifluoromethyl)hepty l]-		24564-77-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,8,8, -dodecafluoro-7- (trifluoromethyl)octyl ester		50836-65-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 3,3,4,4,5,5,6,6,7,8,8, -dodecafluoro-7- (trifluoromethyl)octyl ester		50836-66-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenethioic acid, 2-methyl-, S- [3,3,4,4,5,5,6,6,7,8,8, 8-dodecafluoro-7- (trifluoromethyl)octyl ] ester		30769-91-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,9,9,9 -dodecafluoro-2- hydroxy-8- (trifluoromethyl)nonyl ester		16083-75-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 4,4,5,5,6,6,7,7,8,9,9,9 -dodecafluoro-2- hydroxy-8- (trifluoromethyl)nonyl ester		16083-81-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phenol, 4-bromo-2- [4,4,5,5,6,6,7,7,8,9,9, 9-dodecafluoro-8- (trifluoromethyl)nonyl ]-		610778-18-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C6-18, perfluoro, ammonium salts		72623-77-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reactionproducts with 1H-imidazole-1- propanamine, polyethylene- polypropyleneglycol and TDI homopolymer		332076-28-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reactionproducts with 1H-imidazole-1- propanamine and TDI homopolymer		332076-33-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reactionproducts with 1H-imidazole-1- propanamine, polyethylene glycol and TDIhomopolymer		332076-34-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C8-14, γ-ω- perfluoro		68391-08-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C7-22, ε-ω- perfluoro-, β-δ-fluoro		90622-43-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Tridecanol, 1,1'- [oxybis[(1-methyl- 2,1- ethanediyloxy]]bis[4, 4,5,5,6,6,7,7,8,8,9,9,1 0,10,11,11,12,12,13,1 3,13-heneicosafluoro- (9CI)		93776-01-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2,5,8,11,14,17,20,23, 26,29- Decaoxadotetracontan -31- ol,33,33,34,34,35,35, 36,36,37,37,38,38,39, 39,40,40,41,41,42,42, 42-heneicosafluoro-		93776-07-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Quaternary ammonium compounds, dimethyl(γ-ω- perfluoro-C8-14-β- alkenyl)[2- (sulfooxy)ethyl],		85631-40-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Quaternary ammonium compounds, (hydroxyethyl)dimethyl( $\gamma$ - $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl), chlorides		91081-09-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Quaternary ammonium compounds, (hydroxyethyl)dimethyl( $\gamma$ - $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl), Me sulfates (salts)		92129-34-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Ethanol, 2-(methylamino)-, N-( $\gamma$ - $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl) derivs.		97660-44-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Betaines, N-(hydroxyethyl)-N-methyl-N-(2-sulfoethyl)-N-(1,1,2-trihydroperfluoro-C8-14-2-alkenyl)		98219-29-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Betaines, (hydroxyethyl)methyl( $\gamma$ , $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl)(2-sulfopropyl)		115340-82-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Quaternary ammonium compounds, trimethyl( $\delta$ - $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl), chlorides		115535-36-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Quaternary ammonium compounds, diethylmethyl( $\gamma$ - $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl), Me sulfates		127133-57-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Quaternary ammonium compounds, diethylmethyl( $\gamma$ - $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl), tetraphenylborates		145477-02-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Quaternary ammonium compounds, diethylmethyl( $\gamma$ - $\omega$ -perfluoro-C8-14- $\beta$ -alkenyl), tetrafluoroborates		153325-45-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Propanedioic acid, mono( $\gamma$ - $\omega$ -perfluoro-C8-12-alkyl) derivs., di-me esters		238420-68-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Propanedioic acid, mono( $\gamma$ - $\omega$ -perfluoro-C8-12-alkyl) derivs., bis[4-(ethenyloxy)butyl] esters		238420-80-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C9-15-unsatd., $\gamma$ - $\omega$ -perfluoro, Et esters, reaction products with(3-hydroxypropoxy)-terminated di-Me siloxanes, Me Et ketone oxime, polymethylene polyphenylene		510732-30-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with methyl 2-methyl-2-propenoate		93705-98-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\epsilon$ - $\omega$ -perfluoro-C8-22-alkyl esters, $\gamma$ - $\delta$ -fluoro derivs.		91648-32-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-(acetyloxy)-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-octafluoro-11-(trifluoromethyl)dodecyl ester, homopolymer (9CT)		90062-89-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2,4,5-Benzenetetracarboxylic acid, mixed 3-chloro-2-hydroxypropyl and $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl esters		68954-01-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide		119973-85-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate		142636-88-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methyloxirane polymer with oxirane mono(2-methyl-2-propenoate), and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate		142636-90-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 2-hydroxyethyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate		142636-91-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, block, peroxidized adipoyl chloride-triethylene glycol polymer-initiated		146289-38-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Bu acrylate, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate, 2,2'-(1,2-diazenediyl)bis[2,4-dimethylpentanenitrile]-initiated		150135-57-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with $\delta$ - $\omega$ -perfluoro-C10-16-alkyl acrylate and vinyl acetate		174125-96-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, C12-14-alkyl esters, polymers with Bu (1-oxo-2-propenyl)carbamate and $\delta$ - $\omega$ -perfluoro-C6-12-alkyl acrylate		178233-67-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, linseed-oil, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl esters		178535-23-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C10-16-alkyl acrylate and vinyl acetate		186397-57-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, peroxidized adipoyl chloride-triethylene glycol polymer-initiated		193635-71-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C10-16-alkyl acrylate and vinyl acetate, acetates		196316-34-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, $\gamma$ - $\omega$ -perfluoro-C6-16-alkyl esters, polymers with 1-(3,4-dichlorophenyl)-1H-pyrrole-2,5-dione and sodium 4-ethenylbenzenesulfonate (1:1)		202875-75-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethylmethacrylate, $\gamma$ - $\omega$ -perfluoro-C10-16-alkyl acrylate and stearyl methacrylate		203743-03-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and Me Et ketone oxime, polymers with 2-ethylhexyl acrylate, 2-hydroxyethyl acrylate and $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate		221455-72-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C8-14, $\gamma$ - $\omega$ -perfluoro, polymers with $\alpha$ -fluoro- $\omega$ -[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]poly(difluoromethylene), methanol, stearylacrylate, stearyl methacrylate, 2,4-TDI and vinyl chloride		376364-33-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate, acetates, N-oxides		479029-28-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
10,13,16,19-Tetraoxaocacosadiene, tetratriacontafluoro-(9CI)		84029-54-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) esters, polymers with N-(hydroxymethyl)-2-propenamide, $\gamma$ - $\omega$ -perfluoro-C8-18-alkyl acrylate and vinyl chloride		502135-45-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C6-16-alkyl acrylate and stearyl acrylate		503284-73-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C6-16-alkyl esters, polymers with acrylonitrile, N-(butoxymethyl)-2-propenamide, polyethylene glycol dimethacrylate and polyethylene glycol methacrylate Me ether		503287-56-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid, 2-methyl-, (2Z)-, polymers with $\gamma$ - $\omega$ -perfluoro-C8-16-alkyl acrylate, stearyl acrylate and styrene		503296-97-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, polymers with $\gamma$ - $\omega$ -perfluoro-C8-16-alkyl acrylate and stearyl acrylate		503297-86-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, polymers with C14-24-alkyl methacrylate, cyclohexyl methacrylate, 2-hydroxyethyl acrylate, γ-ω-perfluoro-C6-16-alkyl acrylate and 2-[[[[[1,3,3-trimethyl-5-[[[[[1-methylpropylidene)amino]oxy]carbonyl]amino]cyclohexyl]methyl]amino]carbonyl]oxy]ethyl methacrylate		503299-29-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-[[[[[1,3,3-trimethyl-5-[[[[[1-methylpropylidene)amino]oxy]carbonyl]amino]cyclohexyl]methyl]amino]carbonyl]oxy]ethyl ester, polymers with 2-ethylhexyl acrylate, 2-hydroxyethylacrylate and γ-ω-perfluoro-C6-16-alkyl acrylate		503299-50-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C8-20, γ-ω-perfluoro, reaction products with potassiumacrylate		509086-57-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymers with maleicanhydride, γ-ω-perfluoro-C6-16-alkyl acrylate and 2,4,6-tris(2-propenyloxy)-1,3,5-triazine		510732-38-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, octadecyl ester, polymers with γ-ω-perfluoro-C8-14-alkyl acrylate		510732-48-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, polymers with ethylene dimethacrylate, ethylene oxide, nonadecyl acrylate, γ-ω-perfluoro-C6-16-alkyl acrylate and propylene oxide		510733-10-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, telomers with Et acrylate, 1-octanethiol and $\gamma$ - $\omega$ -perfluoro-C6-16-alkyl acrylate		510734-75-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C8-16-alkyl esters, polymers with ethylene and N-(hydroxymethyl)-2-propenamide		511271-18-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymers with glycidylmethacrylate and $\gamma$ - $\omega$ -perfluoro-C6-16-alkyl acrylate		511271-19-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with 2-[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]ethyl methacrylate, 14-hydroxy-3,6,9,12-tetraoxahexadec-1-yl methacrylate and $\gamma$ - $\omega$ -perfluoro-C6-16-alkyl acrylate		512179-48-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C8-16-alkyl acrylate and polyethylene glycol monoacrylate		515152-55-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, hydrogen phosphate, compd. with 2,2'-iminobis[ethanol](1:1) (9CI)		57677-98-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C8-14, $\gamma$ - $\omega$ -perfluoro		85995-91-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Alcohols, C8-14, $\gamma$ - $\omega$ -perfluoro, reaction products with epichlorohydrin and propylene oxide, trimethylamine-quaternized		185630-70-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Sulfuric acid, mono( $\gamma$ - $\omega$ -perfluoro-C6-12-alkyl) esters, ammonium salts		68516-17-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-[methyl[( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl esters, reaction products with polyethylene glycolbis(2-mercaptoacetate)		68784-73-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C4-8-alkyl esters, polymers with 2-[methyl[( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-52-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C4-18-alkyl esters, polymers with 2-[methyl[( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-53-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C7-8-alkyl esters, polymers with 2-[methyl[( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-54-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C7-18-alkyl esters, polymers with 2-[methyl[( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		68988-55-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Sulfuric acid, mono( $\gamma$ - $\omega$ -perfluoro-C8-12-alkyl) esters, ammonium salts		84238-62-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Sulfuric acid, mono( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl) esters		85995-90-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Sulfuric acid, mono( $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl) esters, ammonium salts		101940-12-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Siloxanes and Silicones, hydroxy Me, Me octyl, Me ( $\gamma$ - $\omega$ -perfluoro C8-14-alkyl)oxy, ethers with polyethylene glycol mono-Me ether		170424-64-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Amines, C12-14-tert-alkyl, compds. with $\gamma$ - $\omega$ -perfluoro-C6-12-alkyldihydrogen phosphate (1:1)		206009-80-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Amines, C12-14-tert-alkyl, compds. with bis( $\gamma$ - $\omega$ -perfluoro-C6-12-alkyl)hydrogen phosphate (1:1)		206009-81-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,4-Butanediol, 2,3-bis[ ( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)thio] derivs., polymers with 1,6-diisocyanatotrimethyl hexane and 2,2'-(methylimino)bis[ethanol]		68037-23-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thiols, C6-12, $\gamma$ - $\omega$ -perfluoro		68140-20-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thiols, C10-20, $\gamma$ - $\omega$ -perfluoro		68140-21-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,4-Butanediol, 2,3-bis[ ( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)thio] derivs.		68187-24-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[ ( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)thio] derivs.		68187-25-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Siloxanes and Silicones, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy Me, hydroxy Me, Me octyl, ethers with polyethylene glycol mono-Me ether		143372-54-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Siloxanes and Silicones, hydrogen $\gamma$ - $\omega$ -perfluoro-C6-10-alkyl		160965-19-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Sulfonic acids, C6-12-alkane, $\gamma$ - $\omega$ -perfluoro, ammonium salts		180582-79-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Sulfonic acids, C8-20-alkane, $\gamma$ - $\omega$ -perfluoro, compds. with triethylamine		297175-71-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Poly(oxy-1,2-ethanediyl), $\alpha$ -methyl- $\omega$ -hydroxy-, 2-hydroxy-3-[( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)thio]propyl ethers		70983-59-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)thio] derivs., chlorides		70983-60-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanol, 2,3-bis[( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)thio] derivs.		70983-61-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,4-Butanediol, polymers with 2,3-bis[( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)thio]-1,4-butanediol, C36-alkylene diisocyanate and 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane		71205-28-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Acetic acid, bis[( $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl)thio] derivs.		71608-37-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Acetic acid, bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs., Me esters		71608-39-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Acetic acid, bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs., sodium salts		71608-40-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Bicyclo[2.2.1]heptane-2,3-dicarboxylic acid, 5-[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.		71608-43-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Chromium, bis[(γ-ω-perfluoro-C8-20-alkyl)thio]acetate chloro hydroxycomplexes		71608-44-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Chromium, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio]pentanoate chlorohydroxy complexes		71608-45-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Chromium, chloro hydroxy 5-[(γ-ω-perfluoro-C8-20-alkyl)thio]bicyclo[2.2.1]heptane-2,3-dicarboxylate complexes		71608-46-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
4,7-Methanoisobenzofuran-1,3-dione, hexahydro-, 5-[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.		71608-58-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs.		71608-60-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Propanamide, N-(1,1-dimethyl-3-oxobutyl)-, 3-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs.		71608-63-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Carbamic acid, N-[4-methyl-3-[[[2-methyl-1-aziridiny]carbonyl]amino]phenyl]-, 2-[[[3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl]thio]-1-[[[3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl]thio]methyl]ethyl ester		72779-05-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Disulfides, bis( $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl)		118400-71-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Propanediol, 2,2-bis(bromomethyl)-, reaction products with ethanethiol-tetrafluoroethylene telomer		144468-31-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C18-unsatd., dimers, diisocyanates, polymers with 2,3-bis( $\gamma$ - $\omega$ -perfluoro-C4-18-alkyl)-1,4-butanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane and 2,2'-(methylimino)bis[etha		68990-40-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thiols, C4-20, $\gamma$ - $\omega$ -perfluoro, reaction products with methylatedformaldehyde-1,3,5-triazine-2,4,6-triamine polymer		113089-67-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C8-14, $\gamma$ - $\omega$ -perfluoro, reaction products with epichlorohydrin, polyethylene glycol mono-Me ether and N,N',2-tris(6-isocyanatohexyl)imido dicarbonic diamide		118102-37-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C8-14, $\gamma$ - $\omega$ -perfluoro, reaction products with epichlorohydrin, tetrahydrofuran homopolymer and N,N',2-tris(6-isocyanatohexyl)imido dicarbonic diamide		118102-38-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Hexane, 1,6-diisocyanato-, homopolymer, γ-ω-perfluoro-C6-20-alc.-blocked		135228-60-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Propanediol, 2,2-bis(bromomethyl)-, reaction products with ethanethiol-tetrafluoroethylene telomer, polymers with 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2'-(methylimino)bis[ethanol]		144468-32-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs., phosphates		148240-86-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates		148240-88-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C8-14, γ-ω-perfluoro, polymers with 1,6-diisocyanatohexane, ethylene glycol, glycidol and 2,4-TDI		253873-70-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester		26650-10-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N-(carboxymethyl)-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)sulfonyl]amino]-N,N-dimethyl-, inner salt		34455-21-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, N-(carboxymethyl)-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafluorododecyl)sulfonyl]amino]-N,N-dimethyl-, inner salt		34455-35-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Phosphinic acid, bis(heneicosafuorode cyl)- (9CI)		52299-27-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-, hydrogenphosphate, compd. with 2,2'- iminobis[ethanol] (1:1) (9CI)		57677-97-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkenes, C4-20 α-, γ- ω-perfluoro		68155-04-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, methyl ester, polymer with3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-propenoate		88248-34-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphonic acid, (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -, compd. with N,N- diethylethanamine (9CI)		90146-97-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluorodecyle ster, polymer with octadecyl 2- propenoate		90718-04-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Undecanol, 1,1'- [oxybis[(1-methyl- 2,1- ethanediyl)oxy]]bis[4, 4,5,5,6,6,7,7,8,8,9,9,1 0,10,11,11,11- heptadecafluoro-(9CI)		93776-02-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2,5,8,11,14,17,20,23, 26,29- Decaoxatetracontan- 31- ol,33,33,34,34,35,35, 36,36,37,37,38,38,39, 39,40,40,40- heptadecafluoro-		93776-08-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

## 8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Propanaminium, N-(2-carboxyethyl)-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)amino]-N,N-dimethyl-, inner salt		93776-14-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Undecanol, 1-[2-(2-butoxyethoxy)ethoxy]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-		94158-61-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Aziridineethanol, α-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononyl)-		94159-85-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Undecanol, 1-(ethenyloxy)-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-		94159-86-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Glycine, N-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)-N-methyl-, monopotassium salt (9CI)		94159-87-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-1-phenoxy-		94159-91-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenoic acid, 4-oxo-4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)amino]-, (Z)- (9CI)		97259-81-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, polymer with octadecyl 2-methyl-2-propenoate		104242-01-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1,2-Nonanediol, 4,4,5,5,6,6,7,7,8,9,9,9 -dodecafluoro-8- (trifluoromethyl)-, 1- (dihydrogen phosphate)		105416-14-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluorodecyl ester, polymer with ethenyltriethoxysilane (9CI)		106826-29-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3- Isobenzofurandione, polymer with α- fluoro-ω- (oxiranylmethyl)poly( difluoromethylene) and (phenoxymethyl)oxira		107097-76-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Surflon 113 (9CI)		110070-82-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,11,11,12,12,12- heneicosafuorododecyl ester, polymer with3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl 2- propenoate,octadecyl 2- propenoate,3,3,4,4,5,5,6, 6,7,7,8,8,9,9,10,10,11,11 ,12,12,13,13,14,14,14- pentacosafuorotetradecyl l 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluorooctyl 2- propenoate (9CI)		110570-84-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,11,11,12,12,12- heneicosafuorododecyl 2- propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10-heptadecafluorodecyl 2-propenoate, N- (hydroxymethyl)-2- propenamide,3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,11,11,12,12 ,13,13,14,14,15,15,16,16,16- nonacosafuorohexadecyl 2- propenoate and3,3,4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13,13,14, 14,14- pentacosafuorotetradecyl 2- propenoate (9CI)		112310-55-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediy), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, octadecyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate		112311-93-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate (9CI)		112328-98-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 2-(phosphonoxy)ethyl 2-methyl-2-propenoate. block		113150-11-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, polymer with rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI)		118570-85-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,11,11,12,12,12- heneicosafuorododecyl ester, polymer with3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10- heptadecafluorodecyl 2- propenoate, α-(2-methyl-1- oxo-2-propenyl)-ω-[(2- methyl-1-oxo-2- propenyl)oxy]poly(oxy-1,2- ethanediyl),3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,11,11,12,12,1 3,13,14,14,15,15,16,16,16- nonacosafuorohexadecyl 2- propenoate, octadecyl 2- propenoate and3,3,4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13,13,14, 14,14- pentacosafuorotetradecyl 2- propenoate (9CT)	119973-84-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance	
2-Propenoic acid, 2- methyl-, methyl ester, polymer with3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-propenoate,block	121065-52-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance	
Siloxanes and Silicones, di-Me, 3- hydroxypropyl group- terminated, polymers with 2-butyne-1,4- diol-γ-ω-perfluoro C10-20 thiol reactionproduct and 1,6-diisocyanato- 2,2,4(or 2,4,4)- trimethylhexane	127133-54-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance	
Silane, trichloro(heptadecaflu orodecyl)-	146443-00-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance	
1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluoro-, ammonium salt (1:1)	149724-40-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance	
2-Propenoic acid, 2- methyl-, 2- (dimethylamino)ethyl ester, polymers withBu acrylate, γ-ω- perfluoro-C8-14-alkyl acrylate and polyethylene glycolmonomethacryl ate	150409-17-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance	

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with acrylonitrile, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate, polyethylene glycol monomethacrylate and styrene		150409-18-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Me methacrylate, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate, polyethylene glycol monomethacrylate and stearyl methacrylate		150409-19-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thiols, C4-20, $\gamma$ - $\omega$ -perfluoro, reaction products with hexakis(methoxy methyl)melamine and vinyl tert-decanoate		151686-30-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, diethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)methyl-		152992-46-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, butyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, block (GCT)		154965-63-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2 (or 3)-[( $\gamma$ - $\omega$ -perfluoro-C3-14-alkyl)thio] derivs.		160336-21-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C1-24, perfluoro		160402-15-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Quaternary ammonium compounds, bis(hydroxyethyl)methyl( $\delta$ - $\omega$ -perfluoro- $\beta$ -hydroxy-C10-14-alkyl), iodides		160402-26-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Phosphoric acid, mono(perfluoro-C10- 18-alkyl) esters, diammonium salts		160498-33-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2- Benzenedicarboxylic acid, bis(γ-ω- perfluoro-1-methyl- C5-20-alkyl)esters		160709-28-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Silane, trichloro(3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10,1 0- heptadecafluorodecyl) -,reaction products with ammonia		160994-74-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Imidodicarbonic diamide, N,N',2- tris(6- isocyanatohexyl)-, reaction productswith glycidol, hydrolyzed ethylene- pentafluoroiodoethan e-tetrafluoroethylene telomer reaction product and stearyl		162491-88-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Trisiloxane, 3- (3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) -1,1,1,3,5,5,5- heptamethyl-		163921-85-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Poly(oxy-1,2- ethanediyl), α,α',α''- [[[(3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,10- heptadecafluorodecyl) silylidyne]tris[oxy(di methylsilylene)-3,1- propanediyl]]tris[ω- methoxy-		165967-96-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,10- heptadecafluorodecyle ster, polymer with 1- ethenyl-4- [[undecafluorohexeny l]oxy]benzene, graft(9CT)		167229-03-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,11- heptadecafluoro-,1,1'- (hydrogen phosphate)		170004-70-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Propanoic acid, 3-[( $\gamma$ - $\omega$ -perfluoro-C6-18-alkyl)thio] derivs.		176590-84-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl), $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl) and 3-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]-1-disiloxanyl]propyl 2-methyl-2-propenoate		176741-19-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, methyloxirane polymer with oxirane mono-2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]propyl 2-methyl-2-propenoate (9CI)		176894-23-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C1-20, reaction products with glycidol, $\gamma$ - $\omega$ -perfluoro C8-14 alcs. and N,N',2-tris(6-isocyanatohexyl)imido dicarbonic diamide		182700-79-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with N-(hydroxymethyl)-2-methyl-2-propenamides and $\gamma$ - $\omega$ -perfluoro-C10-16-alkylacrylates		200295-54-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, butyl ester, polymers with 2-ethylhexylmethacrylate, N-(hydroxymethyl)-2-methyl-2-propenamides and $\gamma$ - $\omega$ -perfluoro-C10-14-alkyl methacrylates		200295-55-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate and methyloxirane polymer with oxirane mono-2-propenoate (9CI)		200413-68-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate		200513-42-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkenes, C8-14 $\alpha$ , $\gamma$ - $\omega$ -perfluoro		210432-72-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl esters		212013-58-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, methyloxirane polymer with oxirane mono-2-propenoate butyl ether, and 2-propenoic acid (9CI)		214002-95-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group]-terminated, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl methacrylate, 3a,4,7,7a,?,?-hexahydro-4,7-methano-1H-indenyl acrylate and tricyclo[3.3.1.1.3,7]dec-1-yl		218286-10-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Glycine, N,N-bis[2-hydroxy-3-(2-propen-1-yloxy)propyl]-, sodium salt(1:1), reaction products with ammonium hydroxide and 1,1,1,2,2-pentafluoro-2-iodoethane-tetrafluoroethylene telomer		220459-70-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and Me Et ketone oxime, polymers with $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate and stearylacrylate		221455-57-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl ester, polymers with acrylonitrile, polyethylene glycol dimethacrylate and polyethylene glycol methacrylate Me ether		221455-61-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymers with acrylic acid-glycidyl Ph ether-TDI reaction product, $\gamma$ - $\omega$ -perfluoro-C8-20-alkylacrylate and stearylacrylate		221455-62-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-hydroxyethyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate and stearyl acrylate		221455-63-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) ester, polymers with 2-hydroxyethyl methacrylate-5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane-Me Et ketone oxime reaction product, $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate and vinyl		221455-64-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) ester, polymers with N,N-dimethyl-2-propenamide, $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate and vinylchloride		221455-67-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Butenedioic acid (2Z)-, bis(2-ethylhexyl) ester, polymers with N-(hydroxymethyl)-2-propenamide, $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate and vinyl chloride		221455-71-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, methyl ester, polymer with $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate		221455-73-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alconois, C8-14, $\gamma$ - $\omega$ -perfluoro, polymers with 5-amino-1,3,3-trimethylcyclohexane methanamine, carbonic acid, 1,6-diisocyanatohexane, 1,6-hexanediol, 1,1'-methylenebis[4-isocyanatocyclohexane] and trimethylolpropan		223586-53-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate and polyethylene glycol monomethacrylate		224790-87-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl esters, polymers with polyethylene glycol monomethacrylate and polypropylene glycol monomethacrylate		224790-97-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanedioic acid, 2-methylene-, 4-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl) ester		230295-05-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymers with glycidyl methacrylate and $\gamma$ - $\omega$ -perfluoro-C6-20-alkyl acrylate, acetates (salts)		247047-61-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecylester, polymer with N-(butoxymethyl)-2-methyl-2-propenamide, dodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-methyl-2-propenoate, N-(hydroxymethyl)-2-methyl-2-propenamide, octadecyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-methyl-2-propenoate (9CI)		247109-50-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, isooctadecyl 2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl), α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate		256488-93-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with N-(hydroxymethyl)-2-propenamide, γ-ω-perfluoro-C8-16-alkyl acrylate and stearyl acrylate		260794-06-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with N-(hydroxymethyl)-2-propenamide, γ-ω-perfluoro-C8-16-alkyl acrylate, stearyl acrylate and vinyl chloride		260794-09-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, isooctadecyl 2-propenoate, 2-methyloxirane polymer with oxirane mono-2-propenoate, and α-(2-methyl-1-oxo-2-propen-1-yl)-ω-methoxypoly(oxy-		263260-98-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Hexanedioic acid, dimethyl ester, polymers with 2,2-bis(bromomethyl)-1,3-propanediol-ethanethiol-tetrafluoroethylene telomer reaction products		277752-44-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, homopolymer, syndiotactic (9CI)		287391-07-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, polymers with 2-ethylhexyl methacrylate, N-(hydroxymethyl)-2-propenamide and 2-[methyl[(γ-ω-perfluoro-C8-14-alkyl)sulfonyl]amino]ethyl acrylate		304012-61-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl group]-terminated, polymers with 2-[[[[5-[[[2-[[[[5-[[[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]carbonyl]amino]-2-		321371-84-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, dodecyl ester, polymers with(chloromethyl)ethenylbenzene, N-(hydroxymethyl)-2-propenamide and γ-ω-perfluoro-C10-14-alkyl acrylates		330809-58-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol- and 2-hydroxyethyl acrylate-blocked 2,4-TDI-trimethylolpropane polymer, Methacrylate and octahydro-4,7-methano-1H-indenyl acrylate, tert-Bu 2-ethylhexaneperoxoate		339163-51-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3-Cyclonexene-1-carboxylic acid, 6-[(di-2-propenylamino)carbonyl]-, (1R,6R)-rel-, reaction products with pentafluoriodoethane-tetrafluoroethylene telomer		348137-34-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate		357924-15-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alcohols, C8-14, γ-ω-perfluoro, polymers with 1,3-butanediol, 1,3-diisocyanatomethylbenzene and 2-ethyl-2-(hydroxymethyl)-1,3-propanediol		374551-53-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, telomer with 1-dodecanethiol, methyl 2-methyl-2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediyl) and α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(ox		380843-06-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with methyloxirane polymer with oxirane mono-2-propenoate, tert-Bu 2-ethylhexaneperoxoate-initiated		393582-46-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, octahydro-4,7-methano-1H-indenyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C6-22-alkyl acrylate and polyethylene glycol methacrylate Meether, di-Me 2,2'-azobis[2-methylpropanoate]-initiated		393582-59-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, octadecyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C6-22-alkylacrylate		393819-33-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,4-Butanediol, polymer with 1,6-diisocyanatohexane, 2-ethyl-1-hexanol and $\gamma$ - $\omega$ -perfluoro-C8-14-alc.-blocked		399026-30-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Propanaminium, 3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) sulfonyl]amino]-N,N,N-trimethyl-, 4-methylbenzenesulfonate (1:1)		438237-77-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5-furandione, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl esters, tert-Bubenzenecarboperoxoate-initiated		459415-06-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propen-1-ol, reaction products with 1,1,1,2,2-pentafluoro- 2-iodoethane- tetrafluoroethylene telomer, dehydroiodinated, reaction products with epichlorohydrin and triethylenetetramine		464178-90-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Propanoic acid, 3- [(3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) thio]-2-methyl-, lithium salt (1:1)		476304-39-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 3- (trimethoxysilyl)propyl ester, polymer with 3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,11,11, 12,12,12- heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptadecafluorodecyl 2-propenoate and octadecyl 2- propenoate (9CI)		477529-30-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Proline, 1- [(3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluorodecyl) sulfonyl]-, lithium salt (9CI)		503431-63-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, methyl ester, polymer with 3,3,4,4,5,5,6,6,7,7, 8,8,9,9,10,10,10- heptadecafluorodecyl 2- propenoate, isooctadecyl 2-propenoate, α-(2- methyl-1-oxo-2- propenyl)-ω- methoxypoly(oxy-1,2- ethanediyl) and rel- (1R,2R,4R)-1,7,7- trimethylbicyclo[2.2.1] hept-2-yl 2- propenoate, 2,2'- azobis[2-		503448-36-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl), tert-Bu 2-ethylhexaneperoxoate-initiated		503621-60-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl), di-Me 2,2'-azobis[2-methylpropanoate]-initiated		503621-79-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), tert-Bu 2-ethylhexaneperoxoate-initiated		503621-80-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)], tert-Bu 2-ethylhexaneperoxoate-initiated		503621-81-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with octahydro-4,7-methano-1H-indenyl 2-propenoate		504395-90-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymers with maleicanhydride, $\gamma$ - $\omega$ -perfluoro-C8-20-alkyl acrylate and 2,4,6-tris(2-propenyloxy)-1,3,5-triazine		518045-14-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, polymer with butyl 2-propenoate and 2,5-furandione, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl esters, potassium salts, tert-Benzenecarboperoxoate-initiated		524729-93-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Butanediol, polymer with 1,3-diisocyanatomethylbenzene and 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-1-decanol- and Me Et ketone oxime-blocked		644965-83-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, $\delta$ - $\omega$ -perfluoro-C9-15-alkyl esters		671756-62-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Poly(difluoromethylene), $\alpha$ -(2-hydroxyethyl)- $\omega$ -[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]- (9CI)		761418-87-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)]		790697-52-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl ester, polymer with ethyloxirane homopolymer monoether with 1,2-propanediol mono(2-methyl-2-propenoate), tert-Bu 2-ethylhexaneperoxoate-initiated		831241-91-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, mixed hexaesters with dipentaerythritol and 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)thio]propanoic acid		878409-15-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs., polymers with 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl]-1,3-propanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2'-(methylimino)bis[etha		1078142-10-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Thiols, C4-20, γ-ω-perfluoro, telomers with acrylamide and acrylic acid, sodium salts		1078712-88-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuoroheptadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		1094598-90-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, polymers with 2-(dimethylamino)ethyl methacrylate, Me methacrylate, γ-ω-perfluoro-C8-16-alkyl acrylate and vinylpyrrolidone, 2,2'-(1,2-diazenediyl)bis[2-methylpropanenitrile]-initiated, acetates		1223402-68-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, polymer with butyl 2-propenoate and 2,5-furandione, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl esters, tert-Bu 2-ethylhexaneperoxoate-initiated, compds. with 2-(dimethylamino)ethanol		1264198-78-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -methoxypoly(oxy-1,2-ethanediy), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate, 2-[2-(2-propoxyethoxy)ethoxy]ethyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		1429174-38-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		1430799-96-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymers with $\gamma$ - $\omega$ -perfluoro-C8-16-alkyl methacrylate, stearyl methacrylate and tridecylmethacrylate		1221681-75-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, 1-(hydrogen sulfate), ammonium salt (1:1)		63225-58-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptafluoro-, 1- (hydrogen sulfate), ammonium salt (1:1)		63225-57-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, reaction products with acetic acid ( $\gamma$ - $\omega$ - perfluoro-C8-10- alkyl)thio derivs. Bu esters and polyethylenimine		1374418-39-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2- methyl-, 3-chloro-2- hydroxypropyl ester, polymers withN-(1,1- dimethyl-3-oxobutyl)- 2-propenamide, 2- ethylhexyl acrylate, $\gamma$ - $\omega$ -perfluoro-C8-16- alkyl acrylate, stearyl acrylate and vinyl chloride, 2,2'- azobis[2- methylpropanimidami de] dihydrochloride- initiated		325966-78-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Methanol, reaction products with 1,6- diisocyanatohexane, ethylene, ethyleneoxide, iodoethane and tetrafluoroethylene		254889-79-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Imidodicarbonic diamide, N,N',2- tris(6- isocyanatoethyl)-, reaction products with3-chloro-1,2- propanediol, ethylene, iodoethane and tetrafluoroethylene		254889-72-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Butanedioic acid, monopolyisobutylene derivs.,3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,10- heptafluorodecyl ester		253683-00-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
9-Octadecenoic acid (9Z)-, 3,3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- heptafluorodecyl ester		167289-73-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with maleicanhydride, 2-[[[(2-mercaptoethoxy)carbonyl]amino]ethyl methacrylate, γ-ω-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate		333784-46-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with 2,3-dihydroxypropyl methacrylate, γ-ω-perfluoro-C8-16-alkyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol monomethacrylate		333784-44-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, reaction products with [(trimethylsilyl)oxy]-modified silica		254889-67-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Perfluoro compounds, C5-18		86508-42-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodo-		30046-31-2	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]-, innersalt		93776-15-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,13- heneicosafuoro-2- hydroxy-N,N-bis(2- hydroxyethyl)-N- methyl-, iodide (1:1)		93776-17-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Etaneperoxoic acid, reaction products with3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10,10- heptadecafluorodecyl thiocyanate and3,3,4,4,5,5,6,6,7,7 ,8,8,8- tridecafluorooctyl thiocyanate		182176-52-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C6-18, perfluoro		90622-71-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
C10-2 fluorotelomer alcohol; 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12,1 2,12-heneicosafuoro-		865-86-1	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
C10-2 telomer B iodide:		2043-54-1	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10,1 1,11,12,12- pentacosafuoro-12- iodododecane		307-60-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, gamma-omega- perfluoro-C8-14-alkyl esters		85631-54-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-[[3- (dimethylamino)propy l]amino]- 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,14,14,15,15,15- pentacosafuoropenta decane-2-ol		94159-79-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,13,13 ,13-icosafuoro-2- hydroxy-12- (trifluoromethyl)tridecyl phosphate		94200-50-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,14,15,15,15- tetracosafuoro-2- hydroxy-14- (trifluoromethyl)pentadecyl dihydrogen phosphate		63295-28-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3,3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,12,12,1 2-icosafuoro-11- (trifluoromethyl)dodecyl methacrylate		74256-14-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
[4,4,5,5,6,6,7,7,8,8,9, 9,10,10,11,11,12,12,1 3,13,13- heneicosafuoro-2- hydroxytridecan-1- yl][bis(2- hydroxyethyl)]methyl ammonium iodide		93776-17-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13 ,13,14,15,15,15- tetracosafuoro-2- hydroxy-14- (trifluoromethyl)pentadecyl phosphate		94200-51-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonacosafuoro-1- iodotetradecane		307-63-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Eicosafuoro-10-iodo- 2- (trifluoromethyl)decane		677-93-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,1,1,2,2,3,3,4,4,5,5,6 ,6,7,7,8,8,9,9,10,10,1 1,11,12,12- pentacosafuoro-14- iodotetradecane		30046-31-2	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to FDA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Phosphinic acid, bis(perfluoro-C6-12- alkyl) derivs.		68412-69-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
Amides, C7-19, alpha-omega-perfluoro-N,N-bis(hydroxyethyl)		90622-99-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16-nonacosafluorohexadecyl methacrylate		4980-53-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl acrylate		16083-87-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C7-13, perfluoro		68333-92-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,1'-[oxybis[(1-methylethylene)oxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropentadecan-2-ol]		93776-00-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl dihydrogen phosphate		94158-70-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl phosphate		94200-47-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Henicosafuoro-10-iododecane		423-62-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Nonadecafluoro-9-iodononane		558-97-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Octacosafuoro-14-iodo-2-(trifluoromethyl)tetradecane		3248-63-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance



8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl methacrylate		6014-75-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafuoro-2-hydroxy-12-(trifluoromethyl)tridecyl dihydrogen phosphate		63295-27-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-16-iodohexadecane		65510-55-6	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
1-(Carboxylatomethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)piperazinium; Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)-, hydroxide, inner salt		71356-38-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl methacrylate		74256-15-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
(Z-carboxylatoethyl)(dimethyl)[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]propyl]mopium		93776-15-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)pentadecan-2-ol		94159-82-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl methacrylate		2144-54-9	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl acrylate		17741-60-5	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Alkyl iodides, C4-20, gamma-omega-perfluoro		68188-12-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
(2-carboxylatoethyl)(dimethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)amino]propyl]ammonium		93776-12-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafuoro-12-(trifluoromethyl)tridecan-1-ol Diammonium		94159-83-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-2-hydroxyheptadecyl phosphate		94200-48-3	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl] hydrogen phosphate		1895-26-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl acrylate		52956-82-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecanol		60699-51-6	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodoundecane		65510-56-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, perfluoro-C8-16-alkyl esters		85681-64-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts		93062-53-4	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)dodecane		3248-61-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecanol		39239-77-5	PFOA-related substances 1000ppb (Intentionally added amounts must be reported to EPA)	PFOA listed in European POPs Regulation TSCA Section 5(a) SNUR	GADSL compliance
Carboxylic acids, C7-13, perfluoro, ammonium salts		72968-38-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Fatty acids, C7-19, perfluoro		91032-01-8	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
(2-carboxylatoethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl)amino]propyl]dimethylammonium		93776-13-7	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuorotridecan-2-ol		94159-80-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl phosphate		94200-46-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate		65104-45-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Alkyl iodides, C10-12, .gamma.-.omega.-perfluoro		68390-33-0	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate		115592-83-1	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and perfluoro-C8-14-alkyl acrylate		125328-29-2	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and ?-?-perfluoro-C8-14-alkyl acrylate		129783-45-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

8. Substances whose target application and threshold values have been changed (Substances changed from Version 7.2a to Version 7.3)

Substance	Substance (in Japanese)	CAS-No.	Changes to Target applications	List Ver 7.3 Management Classification	Reason for revision
2-Propenoic acid, dodecyl ester, polymers with Bu (1- oxo-2- propenyl)carbamate and ?-?-perfluoro-C8- 14-alkyl acrylate		144031-01-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Undecane,1,1,1,2,2,3, 3,4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11- tricosafuoro-11-iodo-		307-50-6	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Pentadecane,1,1,1,2,2 ,3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15 -hentriacontafluoro- 15-iodo-		335-79-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance
Tridecane,1,1,1,2,2,3, 3,4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,12, 13,13- heptacosafuoro-13- iodo-		376-04-5	PFOA-related substances 1000ppb	PFOA listed in European POPs Regulation	GADSL compliance

## 9. Revision history

Version	Date	Details of Revisions
Ver.5	July 1, 2008	Created "List of NSK Environmentally Harmful Substances (ver. 5) NSK E 002"
Ver.5.1	January 30,2009	<ol style="list-style-type: none"> <li>1. Changed title "List of NSK Environmentally Harmful Substances (ver. 5)" to "List of NSK Observation Substances (ver.5.1)"</li> <li>2. Revised some of the descriptions in the section "Classes and Standards for Control"</li> <li>3. Added "REACH Regulations Substances of Very High Concern (SVHC): 15 substances" to "Laws/Regulations" in "Laws/Regulations, Industrial Guidelines, and Customer Voluntary Standards Referenced in the List of NSK Observation Substances".</li> <li>4. Deleted "Diphenylamine CAS: 122-39-4" from Annex Table 12 in the "List of NSK Observation Substances" and added "C091: Diphenylamine CAS:122-39-4" to "Annex Table 3: NSK Restricted Substances".</li> <li>5. Added the following substances to "Annex Table 3: NSK Restricted Substances". <ul style="list-style-type: none"> <li>C092 4,4'-Isopropylidenediphenol (Bisphenol A) CAS No: 80-05-7</li> <li>C093 Anthracene CAS No: 120-20-7</li> <li>C094 Triethyl arsenate CAS No: 15606-95-8</li> </ul> </li> </ol>
Ver.5.2	February 28,2011	<ol style="list-style-type: none"> <li>1. Changed title "List of NSK Observation Substances (ver.5.1)" to "List of NSK Environmentally Harmful Substances (ver.5.2)"</li> <li>2. Revised "Laws/Regulations, Industrial Guidelines, Customers' Voluntary Standards Referenced in NSK Environmentally Harmful Substances" as follows: <ol style="list-style-type: none"> <li>1) Added the following laws and regulations to cover newly incorporated substances: <ul style="list-style-type: none"> <li>① Industrial Safety and Health Act; Substances Prohibited for Manufacture</li> <li>② Poisonous and Deleterious Substances Control Act; Specified Poisons Regulations, Annex XVII</li> <li>④ European Chemical Substances Information System (ESIS), PBT (Persistent, Bioaccumulative, and Toxic) (CLP regulations), Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances</li> </ul> </li> <li>2) Deleted company names from the Customer Voluntary Standards and document names in Voluntary Standards</li> </ol> </li> <li>3. Added new section "Definitions"</li> <li>4. Revised "Classes and Standards for Control" as follows: <ol style="list-style-type: none"> <li>1) NSK Prohibited Substances (70 substance groups) <ul style="list-style-type: none"> <li>- Deleted 9 substance groups: A043, A062 to A069</li> <li>- Added 9 substance groups: A071 to A079</li> </ul> </li> <li>2) NSK Reduced Substances (14 substance groups) <ul style="list-style-type: none"> <li>- Added 5 substance groups: B010 to B014</li> <li>- Changed some of the phase-out dates</li> </ul> </li> <li>3) NSK Observation Substances (255 substance groups)</li> </ol> </li> </ol>

Version	Date	Details of Revisions
		<ul style="list-style-type: none"> <li>- Deleted 8 substance groups: C010, C023, C027, C056, C057, C089, C090, C093</li> <li>- Added 169 substance groups: C095 to C131, C133 to C264</li> <li>4) Added new "Classes and Standards for Control" for each product group</li> </ul>
Ver.5.3	June 23,2011	<ol style="list-style-type: none"> <li>1. Revised "Laws/Regulations, Industrial Guidelines, Customers' Voluntary Standards Referenced in NSK Environmentally Harmful Substances" as follows:               <ol style="list-style-type: none"> <li>1) Added the following laws and regulations to cover newly incorporated substances:                   <ol style="list-style-type: none"> <li>①Environmental Quality Standards for Groundwater Pollution</li> <li>②REACH Regulations, Annex XIV: Substances Subject to Authorization</li> <li>③ Stockholm Convention on Persistent Organic Pollutants (POPs)</li> </ol> </li> <li>2) Deleted the item "Customer Voluntary Standards" in order to manage these standards</li> </ol> </li> <li>2. Revised "Classes and Standards for Control" as follows:               <ol style="list-style-type: none"> <li>1) NSK Prohibited Substances (73 substance groups)                   <ul style="list-style-type: none"> <li>- Added 3 substance groups of A080 to A083</li> </ul> </li> <li>2) NSK Reduced Substances (34 substance groups)                   <ul style="list-style-type: none"> <li>- Added 20 substance groups of B015 to B034</li> <li>- Changed some of the phase-out dates</li> </ul> </li> <li>3) NSK Observation Substances (216 substance groups)                   <ul style="list-style-type: none"> <li>- Due to integration of substance groups classified as NSK observation substances or their reclassification as NSK reduced substances, 42 substance groups were deleted: C021, C036, C059, C082~C085, C100, C106, C124, C128, C135~C146, C163, C164, C168, C171, C172, C177, C200, C207, C208, C223, C224, C226, C228, C234, C239, C252, C253, C254, C258</li> <li>- Added 3 substance groups of C265 to C267</li> </ul> </li> </ol> </li> </ol>
Ver.6.0	August 22,2012	<p>The major revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. To conform to the enactment and issue of 2012GADSL, the List of NSK Environmentally Harmful Substances was revised as follows.               <ol style="list-style-type: none"> <li>1) NSK Prohibited Substances (73 substance groups =&gt; 66 substance groups) Up to Ver.5.3, the list of banned substances was decided taking account of the law, industry guidelines and voluntary standards applied by main customers, in addition to NSK's own judgment From this Ver.6.0, the list of banned substances has been decided to comply, in principle, with legal and industry guideline classifications.                   <ul style="list-style-type: none"> <li>- Deleted substance groups: A003, A009, A014, A050, A054, A055, A060, A072, A078, A080 (10 substance groups)</li> <li>- Additional substance groups: A083-A085 (3 substance groups)</li> </ul> </li> <li>2) NSK reduced use substances (34 substance groups =&gt; 33 substance groups) It was clearly difficult to decide reduced use in the absence of a phase-out date based on legal grounds.</li> </ol> </li> </ol>

Version	Date	Details of Revisions
		<p>As there are no reduced use substances for which a phase-out date could be set based on legal grounds, the phase-out date column was deleted.</p> <ul style="list-style-type: none"> <li>- Deleted substance groups: B006, B009, B011, B012, B013, B014 (6 substance groups)</li> <li>- Additional substance groups: B035-B039 (5 substance groups)</li> </ul> <p>3) NSK controlled substances (216 substance groups =&gt; 185 substance groups)</p> <p>By regrouping the controlled substances, the number of substance groups was reduced to simplify the table.</p> <ul style="list-style-type: none"> <li>- Deleted substance groups: C038, C043, C076, C131, C147, C151, C153, C156, C160, C170, C174, C175, C182-C188, C190, C191, C192, C195, C197, C203, C204, C209, C214, C216, C218, C219, C225, C227, C230, C236, C238, C241, C248, C214 C249, C251, C257, C259, C260, C264 (44 substance groups)</li> <li>- Additional substance groups: C268-C280 (13 substance groups)</li> </ul> <p>4) "Steering electrical products (motors, ECU, sensors)" was appended to Section 2-2, "Classes and Standards for Product Groups".</p> <p>For these products, we decided to apply GADSL..</p> <p>2. Substances added to the List of NSK Environmentally Harmful Substances (Ver.5.3): 207 substances (see Section 5)</p> <p>3. Substances deleted from the List of NSK Environmentally Harmful Substances (Ver.5.3): 12 substances (see Section 6)</p> <p>4. Substances for which the management classification was changed: 665 substances (see Section 7)</p> <p>5. Thresholds</p> <p>Our decision took account of the customer's voluntary standards, as well as our own threshold, and from this Ver.6.0, we decided to comply, in principle, with GADSL and the law.</p> <p>However, if the customer had a special request, we decided to use it.</p> <p>Thresholds and upper control values for analyses of major substances were modified as follows.</p> <p>5-1 The thresholds for parts/materials, indirect materials and production support materials were modified as shown below. However, thresholds for cadmium and lead in resins, rubber, paints, inks and pigments are the same as before.</p> <ol style="list-style-type: none"> <li>1) Cadmium: 75 ppm was changed to 100 ppm, and a new analysis upper limit was set at 75 ppm</li> <li>2) Lead: 500 ppm was changed to 1000 ppm, and a new analysis upper limit was set at 500 ppm</li> <li>3) Mercury: 500 ppm was changed to 1000 ppm, and a new analysis upper limit was set at 500 ppm.</li> <li>4) Hexavalent chromium: 500 ppm was changed to 1000 ppm, and a new analysis upper limit was set to 500 ppm</li> </ol> <p>5-2 The threshold for packaging materials (ELV4 substances total) 75 ppm was changed to 100 ppm</p>
Ver.6.1	August 30,2013	<p>1. Laws/regulations and industrial guidelines referenced in List of NSK Environmentally Harmful Substances</p> <p>The JIG List, which is the chemical substance guidelines for electrical and electronic industry by JGPSSI, was migrated to the domestic organization of IEC/TC111 as of May,2012 and changed to the list of the international standards IEC62474. For GADSL which is the guidelines for automobile industry, the regular reviewing was implemented in February, 2013. In addition, substances were added to SVHC (substances of very high concern)/permitted substances in REACH Regulations.</p>



Version	Date	Details of Revisions
		<p>In order to meet these laws and regulations and industrial guidelines, the List of NSK Environmentally Harmful Substances (Ver.6.0) defined in this document was revised.</p> <p>2. The major revisions are as follows:</p> <p>1) NSK Prohibited Substances in Table 1 (66 substance groups =&gt; 66 substance groups) Implemented the addition of prohibited substances and change of management classification but did not change the NSK prohibited substance group.</p> <p>2) NSK Reduced Substances in Table 2 (33 substance groups =&gt; 32 substance groups) Due to the addition of reduced substances and change of management classification, deleted 1 substance group of NSK reduced substances. - Deleted substance group: B028</p> <p>3) NSK Observation Substances in Table 3 (185 substance groups =&gt; 174) Due to the addition/deletion of observation substances, change of management classification, and grouping of substances, etc., deleted 23 substance groups for NSK observation substances and added 12 substance groups. - Deleted substance group: C023, C092, C094, C101, C102, C107, C109, C111, C115, C116, C118, C119, C165, C231, C233, C235, C242, C255, C256, C263, C273, C274, C278 - Additional substance groups: C223, C230, C281-C290</p> <p>4) Substances added to the List of NSK Environmentally Harmful Substances Ver.6.0: 46 substances (see Section 5)</p> <p>5) Substances deleted from the List of NSK Environmentally Harmful Substances Ver.6.0: 13 substances (see Section 6)</p> <p>6) Substances whose classifications were changed from the List of NSK Environmentally Harmful Substances Ver.6.0: 6 substances</p>
Ver.6.2	June 30, 2014	<p>1. Trends in the Law and Industry Guideline taking NSK Environmentally Harmful Substance List into account</p> <ul style="list-style-type: none"> <li>- In September 2013, the guideline international specification IEC62474 list for environmentally harmful substance control in the electrical and electronics industry was revised.</li> <li>- In February 2014, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> <li>- Two substances were added to Class I Specified Chemical Substance of Chemical Substances Control Law.</li> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation and permitted substances were added.</li> </ul> <p>In order to conform with the above-mentioned laws and regulations and industry guidelines, the NSK Environmentally Harmful Substance List (Ver. 6.1) provided in this regulation was revised.</p> <p>2. Main Revisions</p> <p>1) In order to be compatible with the parts and materials conformity table, a partial revision of the management classification according to product group was carried out. Autoparts (steering, ball screws for actuators) are managed according to the GADSL classification.</p>

Version	Date	Details of Revisions
		<p>Monocarriers of precision-machined products are now classified into machine parts, and electrical/electronic parts. Spindles are managed mainly according to the RoHS Directive in the same way as mechatronic products.</p> <p>2) The number of prohibited and controlled substances applied to ballbearings, direct drive products and NSK-Warner products has changed. Prohibited substances (66 substance groups =&gt; 73 substance groups), Controlled substances (174 substance groups =&gt; 171 substance groups)</p> <p>3) The NSK Environmentally Harmful Substance List which was divided into prohibition, reduction, and management in Ver. 6.1, has been combined into one. Due to this unification, it is easier to search for chemical substances, and examine chemical substance content. For easier understanding of substances subject to NSK Management, the display by chemical substance group has been left unchanged.</p> <p>4) Details of additional substances, deleted substances and classification changes in Ver. 6.2 are shown on each sheet.</p> <p>5) NSK management criteria were reexamined according to the restrictions of GADSL, IEC62474, and REACH restriction substances. Changes are detailed on the NSK Environmentally Harmful Substance List.</p>
Ver.6.3	June 30, 2015	<p>Main points of review are as follows.</p> <p>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List</p> <p>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.6.2) provided in this provision was revised.</p> <ul style="list-style-type: none"> <li>- Substances were added to Class II Specified Chemical Substance of Chemical Substances Control Law.</li> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> <li>- Substances were added to the Stockholm convention on Persistent Organic Pollutants (Persistent Organic Pollutants).</li> <li>- In September 2014, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> <li>- In February 2015, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> </ul> <p>2) Prohibition of Certain Toxic Substances Regulations, 2012 (Canada) was newly added to the NSK Environmentally Harmful Substance List (Ver. 6.3).</p> <p>3) Among substances subject to "Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)", some substances that can be used in NSK products were newly added to the NSK Environmentally Harmful Substance List (Ver. 6.3).</p> <p>2. Main revisions</p> <p>1) "System products (exposure devices)" were deleted from the product groups management classification and management criteria.</p> <p>2) The revision of NSK Environmentally Harmful Substance List includes the following.</p> <ul style="list-style-type: none"> <li>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 6.3) (refer to item 7): 375 substances</li> <li>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 6.2) (refer to item 8): 96 substances</li> </ul>

Version	Date	Details of Revisions
		<p>(3) Substances for which the classification was changed from in Ver. 6.2 of the NSK Environmentally Harmful Substance List to in Ver. 6.3 of that (refer to item 9): 15 substances</p> <p>(4) For ball bearings, direct drive products, and NSK-Warner products, the number of to-be prohibited substances, to-be-reduced substances, and to-be-controlled substances was changed.</p> <ul style="list-style-type: none"> <li>- NSK to-be prohibited substances: 73 substance groups =&gt; 70 substance groups</li> <li>- NSK to-be reduced substances: 32 substance groups =&gt; 34 substance groups</li> <li>- NSK to-be controlled substances: 171 substance groups =&gt; 205 substance groups</li> </ul> <p>(5) Auto parts (steering, ball screws for actuators) are to be managed according to the 2015 GADSL classification.</p>
Ver.6.4	May 20,2016	<p>Main points of review are as follows.</p> <ol style="list-style-type: none"> <li>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List               <ol style="list-style-type: none"> <li>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.6.3) provided in this provision was revised.                   <ul style="list-style-type: none"> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> <li>- In September 2015, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> <li>- In February 2016, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> </ul> </li> </ol> </li> <li>2. Main revisions               <ol style="list-style-type: none"> <li>1) NSK code (A: Prohibited, B: Reduced, C: Observation) was abolished. A summary of the group of substances, changes to the summary of the substance.</li> <li>2) The revision of NSK Environmentally Harmful Substance List includes the following.                   <ol style="list-style-type: none"> <li>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 6.4) (refer to item 6): 29 substances</li> <li>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 6.3) (refer to item 7): 4 substances</li> <li>(3) Substances for which the classification was changed from in Ver. 6.3 of the NSK Environmentally Harmful Substance List to in Ver. 6.4 of that (refer to item 8): 17 substances</li> <li>(4) For ball bearings, direct drive products, and NSK-Warner products.                       <ul style="list-style-type: none"> <li>Auto parts (steering, ball screws for actuators) are to be managed according to the 2016 GADSL classification.</li> </ul> </li> </ol> </li> </ol> </li> </ol>
Ver.6.5	June 5,2017	<p>Main points of review are as follows.</p> <ol style="list-style-type: none"> <li>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List               <ol style="list-style-type: none"> <li>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.6.4) provided in this provision was revised.                   <ul style="list-style-type: none"> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> <li>- In January 2017, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> </ul> </li> </ol> </li> </ol>

Version	Date	Details of Revisions
		<p>- In February 2017, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</p> <p>2. Main revisions</p> <p>1) The list was reflected the list of of the main customers requiring the green procurement.</p> <p>2) The revision of NSK Environmentally Harmful Substance List includes the following.</p> <p>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 6.5) (refer to item 6): 841 substances</p> <p>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 6.4) (refer to item 7): 8 substances</p> <p>(3) Substances for which the classification was changed from in Ver. 6.4 of the NSK Environmentally Harmful Substance List to in Ver. 6.5 of that (refer to item 8): 10 substances</p> <p>(4) For ball bearings, direct drive products, and NSK-Warner products.</p> <p>Auto parts (steering, ball screws for actuators) are to be managed according to the 2017 GADSL classification.</p>
Ver.6.6	July 13,2018	<p>Main points of review are as follows.</p> <p>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List</p> <p>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.6.5) provided in this provision was revised.</p> <ul style="list-style-type: none"> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> <li>- In January 2018, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> <li>- In February 2018, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> </ul> <p>2. Main revisions</p> <p>1) The list was reflected the list of of the main customers requiring the green procurement.</p> <p>2) The revision of NSK Environmentally Harmful Substance List includes the following.</p> <p>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 6.6) (refer to item 6): 1449 substances</p> <p>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 6.5) (refer to item 7): 114 substances</p> <p>(3) Substances for which the classification was changed from in Ver. 6.5 of the NSK Environmentally Harmful Substance List to in Ver. 6.6 of that (refer to item 8): 170 substances</p> <p>(4) For ball bearings, direct drive products, and NSK-Warner products.</p> <p>Auto parts (steering, ball screws for actuators) are to be managed according to the 2018 GADSL classification.</p>
Ver.7.0	June 21,2019	<p>Main points of review are as follows.</p> <p>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List</p> <p>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.6.6) provided in this provision was revised.</p> <ul style="list-style-type: none"> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> </ul>

Version	Date	Details of Revisions
		<ul style="list-style-type: none"> <li>- In January 2019, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> <li>- In February 2019, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> </ul> <p>2. Main revisions</p> <ul style="list-style-type: none"> <li>1) The list was reflected the list of of the main customers requiring the green procurement.</li> <li>2) The revision of NSK Environmentally Harmful Substance List includes the following.               <ul style="list-style-type: none"> <li>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 7.0) (refer to item 6): 236 substances</li> <li>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 6.6) (refer to item 7): 658 substances</li> <li>(3) For ball bearings, direct drive products, and NSK-Warner products.                   <ul style="list-style-type: none"> <li>Auto parts (steering, ball screws for actuators) are to be managed according to the 2019 GADSL classification.</li> </ul> </li> </ul> </li> </ul>
Ver.7.1	August 21,2020	<p>Main points of review are as follows.</p> <p>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List</p> <ul style="list-style-type: none"> <li>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.7.0) provided in this provision was revised.           <ul style="list-style-type: none"> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> <li>- In June 2020, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> <li>- In February 2020, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> </ul> </li> </ul> <p>2. Main revisions</p> <ul style="list-style-type: none"> <li>1) The list was reflected the list of of the main customers requiring the green procurement.</li> <li>2) The revision of NSK Environmentally Harmful Substance List includes the following.           <ul style="list-style-type: none"> <li>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 7.1) (refer to item 6): 38 substances</li> <li>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 7.0) (refer to item 7): 26 substances</li> <li>(3) Substances whose applications and thresholds were changed in the NSK Environmental Impact Substances List Ver. 7.0 to Ver. 7.1 (see Section 8): 35 substances</li> <li>(4) For ball bearings, direct drive products, and NSK-Warner products.               <ul style="list-style-type: none"> <li>Auto parts (steering, ball screws for actuators) are to be managed according to the 2020 GADSL classification.</li> </ul> </li> </ul> </li> </ul>
Ver.7.1a	March 31,2021	The deadline for the lead (Pb) exemption was reviewed.
Ver.7.2	August 20,2021	<p>Main points of review are as follows.</p> <p>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List</p> <ul style="list-style-type: none"> <li>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.7.1a) provided in this provision was revised.</li> </ul>

Version	Date	Details of Revisions
		<ul style="list-style-type: none"> <li>- Entries 74 and 75 were added to the list of restricted substances in the REACH regulation.</li> <li>- 11 substances were added to the list of authorized substances under the REACH regulation. (54 substance groups)</li> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> <li>- In April 2021, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> <li>- In February 2021, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> </ul> <p>2. Main revisions</p> <ol style="list-style-type: none"> <li>1) The list was reflected the list of of the main customers requiring the green procurement.</li> <li>2) The revision of NSK Environmentally Harmful Substance List includes the following.               <ol style="list-style-type: none"> <li>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 7.1a) (refer to item 6): 1,622 substances</li> <li>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 7.1a) (refer to item 7): 65 substances</li> <li>(3) Substances whose applications and thresholds were changed in the NSK Environmental Impact Substances List Ver. 7.1a to Ver. 7.2 (see Section 8): 734 substances</li> <li>4) For ball bearings, direct drive products, and NSK-Warner products. Auto parts (steering, ball screws for actuators) are to be managed according to the 2021 GADSL classification.</li> </ol> </li> </ol>
Ver.7.2a	March 4, 2022	<p>Change in NSK management classification.</p> <p>Polycyclic aromatic hydrocarbons (PAH; PCAH), selected :Change of classification from prohibited substances to reduced substances.</p> <p>Isopropylphenyl phosphate :Change of classification from prohibited substances to reduced substances.</p>
Ver.7.3	July 11, 2022	<p>Main points of review are as follows.</p> <ol style="list-style-type: none"> <li>1. Trends of laws and industry guidelines related to the NSK Environmentally Harmful Substance List       <ol style="list-style-type: none"> <li>1) In order to conform to the laws and regulations and industry guidelines mentioned below, the NSK Environmentally Harmful Substance List (Ver.7.2a) provided in this provision was revised.           <ul style="list-style-type: none"> <li>- Entries 76 were added to the list of restricted substances in the REACH regulation.</li> <li>- 5 substances were added to the list of authorized substances under the REACH regulation. (59 substance groups)</li> <li>- Permitted substance candidate SVHC (substances of high concern) of the REACH regulation were added.</li> <li>- In February 2022, the guideline international specification IEC62474 list for environmentally harmful substance control in the electricity and electronics industry was revised.</li> <li>- In February 2022, the guideline GADSL for environmentally harmful substance control in the automobile industry was revised.</li> </ul> </li> </ol> </li> <li>2. Main revisions       <ol style="list-style-type: none"> <li>1) The list was reflected the list of of the main customers requiring the green procurement.</li> <li>2) The revision of NSK Environmentally Harmful Substance List includes the following.           <ol style="list-style-type: none"> <li>(1) Substances added to the NSK Environmentally Harmful Substance List (Ver. 7.2a) (refer to item 6): 670 substances</li> <li>(2) Substances deleted from the NSK Environmentally Harmful Substance List (Ver. 7.2a) (refer to item 7): 0 substances</li> <li>(3) Substances whose applications and thresholds were changed in the NSK Environmental Impact Substances List Ver. 7.2a to Ver. 7.3 (see Section 8): 738 substances</li> <li>4) For ball bearings, direct drive products, and NSK-Warner products. Auto parts (steering, ball screws for actuators) are to be managed according to the 2022 GADSL classification.</li> </ol> </li> </ol> </li> </ol>

Version	Date	Details of Revisions
Ver.7.3a	August 12, 2022	Removed from NSK controlled substance. Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) CAS-No. 68921-45-9 Removed from 'Biocidal coatings / biocidal additives, selected Tetraboron disodium heptaoxide, hydrate CAS-No. 12267-73-1



NSK Ltd.