



# **Standards on the Management of Certain Chemical Substances (Version **14**)**

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**KYOCERA Document Solutions Inc.**

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## Introduction

With the idea of "LIVING TOGETHER", Kyocera Document Solutions promotes the reduction of environmental impact on all aspects of our corporate activities in accordance with the "Kyocera Document Solutions Environmental Safety Policy" that embodies the "Kyocera Group Environmental Safety Policy".

In December 2003, we established "Standards on the Management of Certain Chemical Substances" and have managed Substances Included in Products through our supply chain.

Thank you very much for your cooperation in complying with "Standards on the Management of Certain Chemical Substances".

In the interest of more reliable and efficient compliance with "Standards on the Management of Certain Chemical Substances", we have recently re-examined them, introducing the chemical investigation using the chemSHERPA information transfer scheme.

We appreciate your continued cooperation and further understanding of our efforts and perspectives towards environment conservation.

### **Kyocera Group Environmental Safety Policy**

Based on Kyocera's founding company motto, "Respect the Devine and Love People," we established our management rationale "To provide opportunities for the material and intellectual growth of all our employees, and through our joint efforts, contribute to the advancement of society and humankind." Therefore, in addition to complying with laws and regulations on environmental safety, requirements agreed to by our company, and our own internal standards, we will continue to work to solve issues critical to society through communication with various stakeholders, participation in and support for social contribution activities, and by leveraging our technology and intellectual know-how.

#### 1. Ensuring the safety and health of employees

- To create a safe and secure workplace for all employees, we will create a corporate culture in which everyone involved in our business activities is fully engaged.
- Kyocera will conduct risk assessments and reduce occupational health and safety risks by eliminating sources of danger to prevent workplace accidents and disasters.
- Kyocera strives to build a work environment where employees feel healthy, enjoy job satisfaction, and can reach their maximum potential by promoting mental and physical health.

#### 2. Contribution to a sustainable society

- Kyocera will research, develop, produce, and expand products that contribute to the improvement of the global environment and products that reduce environmental impact throughout their life cycles.
- Kyocera will promote greenhouse gas emission control in our entire value chain to contribute to realizing a carbon-free society.
- Kyocera will contribute to realizing a recycling-oriented society by using resources more efficiently.
- Kyocera will strive to prevent environmental pollution by properly managing chemical substances in all processes.
- Kyocera will advance biodiversity conservation by minimizing the negative impact of our business activities on the natural environment and by protecting and nurturing the natural environment.

#### 3. Operation of an environmental and safety management system

- During our business activities, through the operation of our management system, the Kyocera Group will proactively promote comprehensive measures for environmental protection and work safety, based on the management rationale, and continuously improve environmental and safety performance.

# Chapter 1. Policy on management of Substances Included in Products

## 1-1. Purpose

These standards aim to help ensure proper management of chemical substances by establishing criteria and informing our business partners of the strict chemicals usage in our products or manufacturing process.

## 1-2. Scope of Application

Applied to all finished products, unit items, components, materials, consumables, accessories, optional items, packaging materials, sub-materials for production that are used in our products\*. This does not apply to packaging materials to be used only for shipping of items delivered to us.

\*The term "our products" refers to products sold under brand regardless of manufacturers, and products manufactured by us and sold under other brands.

## 1-3. Terms and Definitions

<Table. 1-3>

No.	Terms	Definitions
1	Chemical substances	A chemical element or compound that either exists in nature or is obtained through a manufacturing process.
2	Mixture	A mixture intentionally comprising two or more chemical substances.
3	Article	An item of specific shape, appearance or design created during manufacture which substantially determines functions in final use rather than functions provided by its chemical composition.
4	Chemical products	Chemical substance and/or mixture.
5	Parts	An article to be manufactured until it turns into an end product.
6	Final products	Final molded products produced by combining or processing chemicals and/or components.
7	Products	Chemicals, components and finished products resulting from our business activities that we deliver to our clients. Note) Packaging materials to be used in product packaging are also included in the product.
8	Contain	Components and materials of such products have to contain such substances.
9	Intentional use	Refers to the use (addition) of a chemical substance in order to give a certain quality to an object. Includes the cases where these substances are added, filled.
10	Impurity	Substances contained in natural materials and cannot be completely removed through refinement as industrial materials; substances that cannot be completely removed such as by-products or residues of synthesis reaction.
11	Homogeneous material	Refers to materials which cannot be mechanically disassembled into different materials. The term "homogeneous" means "evenly consists of the same element". "Mechanical disassembly" refers to disassembly by mechanical work such as removal of screws, cutting, crushing, grinding or polishing.

No.	Terms	Definitions
12	Threshold	Permissible value (density) per homogeneous material for intended applications.
13	Exemption	Certain applications of the subject matters excluded from the scope of regulation.
14	Applicable category	<p>General parts: Parts and materials not included in the following categories.</p> <p>Printed circuit boards: Printed circuit boards and parts including printed circuit boards.</p> <p>Power cord: Cable for supplying electricity from power source (outlet).</p> <p>Batteries: Disposable primary battery e.g. coin-type lithium battery and rechargeable secondary battery e.g. nickel-metal hydride battery.</p> <p>Packaging (wood, desiccant, plastic): Packaging materials for packaging our products.</p> <p>Product accessories: Plastic articles (For example, DVD, CD, etc.) and printed matter other than electrical and electronic components outside the scope of RoHS.</p> <p>Resin materials: Resin materials whose manufacturers, grades and hue are specified by us on the drawings of resin molded components.</p> <p>Supply materials: Toners, developing agents, photosensitive drums (photosensitive layers), inks and cleaning liquids manufactured by our company, and their raw materials.</p>
15	JAMP (Joint Article Management Promotion-consortium)	<p>Joint Article Management Promotion-consortium</p> <p>An organization formed in Japan as a cross-industry body aiming to create and popularize a concrete system to properly manage information on chemical substances contained in articles and to disclose and communicate such information smoothly within the supply chain.</p>
16	chemSHERPA (Chemical information SHaring and Exchange under Reporting Partnership in supply chain)	ChemSHERPA, an information transmission scheme, aims to promote secure and efficient information transfer that facilitates sharing chemical information in products through entire supply chain which are needed in the production and use of products, which ensures protection of human health and environment. JAMP is a management organization.
17	chemSHERPA-AI (Article Information)	ChemSHERPA-AI is a data entry support tool that transfers the composition information and/or legal compliance judgement as information on chemical substances contained in products for articles.
18	chemSHERPA-CI (Chemical Information)	ChemSHERPA-CI is a data entry support tool that transfers the composition information as information on chemical substances contained in products for chemicals.

## 1-4. Revision of "Standards on the Management of Certain Chemical Substances"

Restricted substances and its exemption stipulated in our standards will be reviewed according to domestic and international laws and regulations as well as industry trends.

Please note that the prohibition date based on these standards may be implemented ahead of the legally designated prohibition date in consideration of such factors as distribution periods of our products.

## Chapter 2. Standards on the Management of Certain Chemical Substances

To ensure that our products comply with laws and regulations at home and abroad as well as environmental labels, we have sorted out respective standards and established our own "Standards on the Management of Certain Chemical Substances".

### 2-1. Banned Substances in Products

"Banned Substances in Products" refers to chemical substances prohibited by laws and regulations at home and abroad as well as by environmental label standards.

#### 2-1-1. List of banned substances in products

<Table. 2-1-1>

No.	Chemical substance group	Scope	Scope of chemSHERPA investigation
1	Lead and its compounds	All	Yes
2	Mercury and its compounds	All	Yes
3	Cadmium and its compounds	All	Yes
4	Hexavalent chromium compounds	All	Yes
5	Polybrominated biphenyls (PBBs)	All	Yes
6	Polybrominated diphenyl ethers (PBDEs)	All	Yes
7	Bis(2-ethylhexyl) phthalate (DEHP)	All	Yes
8	Butyl benzyl phthalate (BBP)	All	Yes
9	Dibutyl phthalate (DBP)	All	Yes
10	Diisobutyl phthalate (DIBP)	All	Yes
11	Polychlorinated biphenyl (PCB) compounds and their specific alternative substances	All	Yes
12	Polychlorinated terphenyls (PCTs)	All	Yes
13	Asbestos	All	Yes
14	Specific organotin compounds (TBTO, Tri-substituted organostannic compounds)	All	Yes
15	Dibutyltin (DBT) compounds	All	Yes
16	Dimethyl fumarate (DMF)	All	Yes

No.	Chemical substance group	Scope	Scope of chemSHERPA investigation
17	Shortchain chlorinated paraffins (C10-C13)	All	Yes
18	Polychlorinated naphthalene (more than 1 of chlorine atoms)	All	Yes
19	Perfluorooctane sulfonic acid and its salts (PFOS)	All	Yes
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	All	Yes
21	2-benzotriazol-2-yl-4,6-di-tert-butylphenol	All	Yes
22	Hexabromocyclododecane (HBCDD)	All	Yes
23	Ozone-depleting substances	All	Yes
24	Arsenic compounds	Packaging (wood)	Yes
25	Cobalt chloride	Packaging (desiccant)	Yes
26	Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)	All	Yes
27	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	All	Yes
28	Pentachlorothiophenol (PCTP)	All	Yes
29	Hexachlorobutadiene (HCBd)	All	Yes
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	All	Yes
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	All	Yes
32	<a href="#">1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ('Dechlorane Plus'<sup>TM</sup>)</a>	All	Yes
33	<a href="#">2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)</a>	All	Yes
34	<a href="#">Pentachlorophenol and its salts and esters(PCP)</a>	All	Yes
35	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	Packaging/ Printed matter	No
36	Polycyclic Aromatic Hydrocarbons (PAH)	Resin materials* <sup>1</sup> / Power cord	8 types:Yes 18 types:No
37	Mirex	Resin materials* <sup>1</sup>	Yes
38	Hexachlorobenzene	Resin materials* <sup>1</sup> / Supply materials	Yes
39	Chlorinated paraffins	Printed circuit boards (PWB)	No (Partly)
40	Halogenated organic compounds and Halogenated polymers	Packaging (plastic)	No
41	Halogenated Flame Retardants	Resin materials* <sup>1</sup>	No (Partly)
42	Halogenated polymers (excluding fluorinated plastic.)	Resin materials* <sup>1</sup>	No
43	Specific phthalate (DnHP, DINP, DIDP, DNOP)	Resin materials* <sup>1</sup>	Yes
44	Azo compounds forming specific amine	Supply materials	Yes
45	Selenium and its compounds	Supply materials	Yes
46	Nickel and its compounds	Supply materials	Yes
47	Organotin compounds (excluding specific organotin compounds and dibutyltin (DBT) compounds)	Supply materials	Yes
48	EU REACH regulation (EC) No1907/2006 Annex XIII PBT/vPvB	Resin materials* <sup>1</sup> / Supply materials	Yes



No.	Chemical substance group	Scope	Scope of chemSHERPA investigation
49	EU REACH regulation (EC) No1907/2006 Candidate substances of very high concern (SVHC)	Resin materials*1/ Supply materials	Yes
50	EU REACH regulation (EC) No1907/2006 Annex VII Restricted substances	Supply materials	Yes
51	CLP regulation (EC) 1272/2008 Annex VI Table 3 CMR Cat.1A,1B,2 (excluding titanium dioxide.)	Resin materials*1/ Supply materials	No (Partly)
52	CLP regulation (EC) 1272/2008 Annex VI Specified Hazardous Substances* in Table 3	Supply materials	No
53	Germany: TRGS905 CMR Cat.1-3	Resin materials*1/ Supply materials	No
54	Germany: MAK CPM (C Cat.1-2, P Cat.A-B, M Cat.1-2)(excluding antimony compounds.)	Supply materials	No
55	USA: OSHA 1910 Subpart Z	Supply materials	No
56	USA: EPA Carcinogenicity; A, B1, B2	Supply materials	No
57	USA: NTP Carcinogenicity; K, R	Supply materials	No
58	California: Proposition 65 (cancer, developmental)(excluding carbon black and titanium dioxide.)	Supply materials	No
59	ACGIH Carcinogenicity; 1A, A2, A3 (excluding carbon black and titanium dioxide.)	Supply materials	No
60	IARC Group 1, 2A, 2B (excluding carbon black and titanium dioxide.)	Supply materials	No
61	Japan Society for Occupational Health; Class 1, 2A, 2B (excluding carbon black and titanium dioxide.)	Supply materials	No
62	Japan: Chemical Substances Control Law; Class I, II Specified Chemical Substances	Supply materials	No (Partly)
63	Japan: Industrial Safety and Health Act; Prohibition substances of Manufacturing, Permission substances for Manufacturing	Supply materials	No (Partly)
64	Japan: Industrial Safety and Health Act; mutagens (chemicals with strong mutagenicity)	Supply materials	No
65	Korea: Toxic Chemicals Control Act; Prohibited substances, Restricted substances	Supply materials	No
66	China: List of Toxic Chemicals Severely Restricted in the People's Republic of China	Supply materials	No
67	Taiwan Toxic and Concerned Chemical Substances Control Act Toxic chemical substances	Supply materials	No
68	Vietnam Chemicals Degree No. 113/2017 Annex III List of banned chemicals	Supply materials	No

\*1 Resin materials whose manufacturer, grade and hue are specified by us in drawings of its resin molded parts.

2-1-2. Scope of banned substances in products, thresholds, exemptions, applicable laws and regulations

<Table. 2-1-2>

No.	Chemical substance group	Scope	Thresholds/ Exemptions
1	Lead and its compounds	other than those listed below	Ban on intentional use and 0.1 wt% or below
			Exemptions:
			·Lead as an alloying element in steel for machining purposes containing up to 0.35 % lead by weight and in batch hot dip galvanised steel components containing up to 0.2 % lead by weight (RoHS Exemption: 6a-1)
			·Lead as an alloying element in aluminium containing up to 0.4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling (RoHS Exemption: 6b-I)
			·Lead as an alloying element in aluminium for machining purposes with a lead content up to 0.4 % by weight (RoHS Exemption: 6b-II)
			·Copper alloy containing up to 4 % lead by weight (RoHS Exemption: 6c)
			·Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead) (RoHS Exemption: 7a)
			·Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound (RoHS Exemption: 7c-I)
			·Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (RoHS Exemption: 7c-II)
			·Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors (RoHS Exemption: 7c-IV)
		·Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages (RoHS Exemption: 15)	
·Lead in cermet-based trimmer potentiometer elements (RoHS Exemption: 34)			
	Power cord	less than 0.03wt%(300ppm) per covering material of the power cord	
	Batteries	0.0015wt% (15ppm) or below per cell	

No.	Chemical substance group	Scope	Thresholds/ Exemptions
1	Lead and its compounds	Packaging	Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).
		Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Power cord; California Proposition 65, Batteries; EU Battery directive (2006/66/EC), Taiwan Green Mark, Packaging; EU Packaging directive (94/62/EC)	
2	Mercury and its compounds	other than those listed below	Ban on intentional use and 0.1 wt% or below
			Exemptions:
			·Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Short length ( $\leq 500$ mm) not exceeding (per lamp): 3.5 mg (RoHS Exemption: 3a)
		·Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Medium length ( $> 500$ mm and $\leq 1\ 500$ mm) not exceeding (per lamp): 5 mg (RoHS Exemption: 3b)	
		·Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Long length ( $> 1\ 500$ mm) not exceeding (per lamp): 13 mg (RoHS Exemption: 3c)	
	Batteries	0.000025wt% (0.25ppm) or below per cell	
	Packaging	Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).	
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Batteries; EU Battery directive (2006/66/EC), Taiwan Green Mark, Packaging; EU Packaging directive (94/62/EC)			
3	Cadmium and its compounds	other than those listed below	Ban on intentional use and 0.01 wt% or below
			Exemptions: -
		Batteries	0.0005wt% (5ppm) or below per cell
		Packaging	Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).
	Resin materials* <sup>1</sup>	Less than 0.0075wt% (75ppm)	
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Resin materials; Denmark Prohibition of Sales, Import, and Manufacture of Cadmium-containing Products, Batteries; EU Battery directive (2006/66/EC), Taiwan Green Mark, Packaging; EU Packaging directive (94/62/EC)			

No.	Chemical substance group	Scope	Thresholds/ Exemptions
4	Hexavalent chromium compounds	other than those listed below	Ban on intentional use and 0.1 wt% or below Exemptions: -
		Packaging	Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Packaging; EU Packaging directive (94/62/EC)			
5	Polybrominated biphenyls (PBBs)	All	Ban on intentional use and 0.1 wt% or below
		Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII)	
6	Polybrominated diphenyl ethers (PBDEs)	All	Ban on intentional use and 0.1 wt% or below
		Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Chemical Substances Control Law; Class I Specified Chemical Substances	
7	Bis(2-ethylhexyl) phthalate (DEHP)	other than those listed below	Ban on intentional use and 0.1 wt% or below
		Packging, product Accessories*2	For any articles : less than 0.1wt% (1000ppm) Total amount of DEHP, BBP, DBP, DIBP : less than 0.1wt% (1000ppm)
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII)			
8	Butyl benzyl phthalate (BBP)	other than those listed below	Ban on intentional use and 0.1 wt% or below
		Packging, product Accessories*2	For any articles : less than 0.1wt% (1000ppm) Total amount of DEHP, BBP, DBP, DIBP : less than 0.1wt% (1000ppm)
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII)			
9	Dibutyl phthalate (DBP)	other than those listed below	Ban on intentional use and 0.1 wt% or below
		Packging, product Accessories*2	For any articles : less than 0.1wt% (1000ppm) Total amount of DEHP, BBP, DBP, DIBP : less than 0.1wt% (1000ppm)
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII)			
10	Diisobutyl phthalate (DIBP)	other than those listed below	Ban on intentional use and 0.1 wt% or below
		Packging, product Accessories*2	For any articles : less than 0.1wt% (1000ppm) Total amount of DEHP, BBP, DBP, DIBP : less than 0.1wt% (1000ppm)
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII)			

No.	Chemical substance group	Scope	Thresholds/ Exemptions
11	Polychlorinated biphenyl (PCB) compounds and their specific alternative substances	other than those listed below	Ban on intentional use
		Supply materials	Ban on intentional use and 0.005wt% (50ppm) or below
Applicable laws and regulations/ Environmental label criteria: EU POPs regulation (EU) 2019/1021, Chemical Substances Control Law; Class I Specified Chemical Substances			
12	Polychlorinated terphenyls (PCTs)	other than those listed below	Ban on intentional use
		Supply materials	Ban on intentional use and 0.005wt% (50ppm) or below
Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII)			
13	Asbestos	All	Ban on intentional use
Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII), USA Toxic Substances Control Act (TSCA), Industrial Safety and Health Act; Prohibition substances of Manufacturing			
14	Specific organotin compounds (TBTO, Tri-substituted organostannic compounds)	All	Ban on intentional use and 0.1 wt% or below (conversion by weight of tin)
Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII), Chemical Substances Control Law; Class II Specified Chemical Substances			
15	Dibutyltin (DBT) compounds	All	0.1 wt% or below (conversion by weight of tin)
Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII)			
16	Dimethyl fumarate (DMF)	All	Ban on intentional use and less than 0.00001wt%
Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII)			
17	Shortchain chlorinated paraffins (C10-C13)	All	Ban on intentional use and 0.15wt% or below
Applicable laws and regulations/ Environmental label criteria: EU POPs regulation (EU) 2019/1021			
18	Polychlorinated naphthalene (more than 1 of chlorine atoms)	All	Ban on intentional use
Applicable laws and regulations/ Environmental label criteria: EU POPs regulation (EU) 2019/1021, Chemical Substances Control Law; Class I Specified Chemical Substances			
19	Perfluorooctane sulfonic acid and its salts (PFOS)	other than those listed below	For textiles and other coated parts, less than 1 µ g/m <sup>2</sup> . For any products, parts and materials other than the above, less than 0.1wt%
			Exemptions: -
			·Any photoresists or anti-reflective coatings for photolithography processes (chemSHERPA use code: PFOS-1)
			·Any photographic coatings applied to films, papers, or printing plates (chemSHERPA use code:

No.	Chemical substance group	Scope	Thresholds/ Exemptions	
19	Perfluorooctane sulfonic acid and its salts (PFOS)		PFOS-2)	
		Resin materials* <sup>1</sup>	less than 0.1wt%	
		Supply materials	Ban on intentional use and less than 0.001wt%	
Applicable laws and regulations/ Environmental label criteria: POPs convention, EU POPs regulation (EU) 2019/1021, Canada PFOS regulations (SOR/2008-974), Chemical Substances Control Law; Class I Specified Chemical Substances				
20	Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances (Any related substance (including its salts and polymers) having a linear or branched perfluoroheptyl group (C7F15-) directly attached to another carbon atom, a linear or branched perfluorooctyl group (C8F17-), as a structural elements.)	All	For any articles, substances and mixtures, PFOA and its salts: less than 0.0000025wt% (25ppb), One or a combination of PFOA-related substances: less than 0.0001wt% (1000ppb)	
			Applicable laws and regulations/ Environmental label criteria: POPs convention, EU POPs regulation (EU) 2019/1021, Norway Prohibition on Certain Hazardous Substances in Consumer Products	
21	2-benzotriazol-2-yl-4,6-di-tertbutylphenol	All	Ban on intentional use	
			Applicable laws and regulations/ Environmental label criteria: Chemical Substances Control Law; Class I Specified Chemical Substances	
22	Hexabromocyclododecane (HBCDD)	All	Ban on intentional use and 0.01wt% or below	
			Applicable laws and regulations/ Environmental label criteria: POPs convention, Chemical Substances Control Law; Class I Specified Chemical Substances, EU POPs regulation (EU) No 2016/293	
23	Ozone-depleting substances	All	Ban on intentional use	
			Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Act on the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures	
24	Arsenic compounds	Packaging (wood)	Ban on intentional use	
			Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII)	
25	Cobalt chloride	Packaging (desiccant)	Ban on intentional use	
			Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII)	
26	Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)	All	Ban on intentional use	
			Exemptions:	
			• Lube oil and Greace	
Applicable laws and regulations/ Environmental label criteria: USA Toxic Substances Control Act (TSCA)				
27	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	All	0.3wt% or below	
			Applicable laws and regulations/ Environmental label criteria: USA Toxic Substances Control Act (TSCA)	

No.	Chemical substance group	Scope	Thresholds/ Exemptions
28	Pentachlorothiophenol (PCTP)	All	1wt% or below
	Applicable laws and regulations/ Environmental label criteria: USA Toxic Substances Control Act (TSCA)		
29	Hexachlorobutadiene (HCBD)	All	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: USA Toxic Substances Control Act (TSCA)		
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	All	For any articles, substances and mixtures, total amount of C9-C14 PFCA and its salts: less than 0.0000025wt% (25ppb), total amount of C9-C14 PFCA-related substances: less than 0.000026wt% (260ppb)
	Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII), Swiss chemical risk reduction ordinance		
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and PFHxS-related substances	All	For any articles, substances and mixtures, total amount of PFHxS and its salts: less than 0.0000025wt% (25ppb), total amount of PFHxS-related substances: less than 0.0001wt% (1000ppb)
	Applicable laws and regulations/ Environmental label criteria: <a href="#">EU POPs regulation (EU) 2019/1021</a> , Swiss chemical risk reduction ordinance		
32	<a href="#">1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)</a>	All	Ban on intentional use and 0.1 wt% or below
	Applicable laws and regulations/ Environmental label criteria: <a href="#">POPs convention</a> , <a href="#">China list of key controlled pollutants</a> , <a href="#">EU POPs regulation (EU) 2019/1021</a>		
33	<a href="#">2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)</a>	All	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: <a href="#">POPs convention</a> , <a href="#">EU POPs regulation (EU) 2019/1021</a>		

No.	Chemical substance group	Scope	Thresholds/ Exemptions
34	Pentachlorophenol and its salts and esters(PCP)	All	Ban on intentional use and 0.0005 wt% or below
Applicable laws and regulations/ Environmental label criteria: POPs convention, EU POPs regulation (EU) 2019/1021			
35	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	Packaging(Ink)/ Product accessories (Ink of printed matter)	1 wt% or below
Applicable laws and regulations/ Environmental label criteria: French Anti-waste and circular economy law (The French AGEC law)			
36	Polycyclic Aromatic Hydrocarbons (PAH) [specific 8 types / 18 types] (see Appendix 2. PAHs list.)	Resin materials* <sup>1</sup>	Specific 8 types of PAHs: less than 0.0001 wt% respectively; and total of 18 types of PAHs: less than 0.02 wt%.
		Power cord	0.002wt% (20ppm) or below in Benzo[a]pyrene and 0.02wt% (200ppm) or below in total specific 18 PAHs.
Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII), China; "Ten-wheels" mark			
37	Mirex	Resin materials* <sup>1</sup>	Ban on intentional use
Applicable laws and regulations/ Environmental label criteria: EU POPs regulation (EU) 2019/1021, Chemical Substances Control Law; Class I Specified Chemical Substances			
38	Hexachlorobenzene	Resin materials* <sup>1</sup> / Supply materials	Ban on intentional use (Ban on intentional use of pigments including HCB higher than the BAT value)
		Applicable laws and regulations/ Environmental label criteria: Chemical Substances Control Law; Class I Specified Chemical Substances	
39	Chlorinated paraffins (excluding Short-chain chlorinated paraffins (C10-C13))	Printed circuit boards (PWB)	Ban on intentional use
		Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 205)	
40	Halogenated organic compounds and Halogenated polymers	Packaging (plastic)	Ban on intentional use
		Applicable laws and regulations/ Environmental label criteria: Northern Europe: Nordic Swan, etc.	
41	Halogenated Flame Retardants	Resin materials* <sup>1</sup>	Ban on intentional use
		Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 205), Japan; Eco Mark, China; "Ten-wheels" mark etc.	



No.	Chemical substance group	Scope	Thresholds/ Exemptions
42	Halogenated polymers (excluding fluorinated plastic.)	Resin materials* <sup>1</sup>	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria:Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		
43	Specific phthalate (DnHP, DINP, DIDP, DNOP)	Resin materials* <sup>1</sup>	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: China; "Ten-wheels" mark, California Proposition 65		
44	Azo compounds forming specific amine(Azo compounds that form over 30ppm of specific amines listed on Appendix 1)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria:Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		
45	Selenium and its compounds	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria:Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		
46	Nickel and its compounds	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria:Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		
47	Organotin compounds (excluding specific organotin compounds and dibutyltin (DBT) compounds)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Korea; Eco-Mark		
48	EU REACH regulation (EC) No1907/2006 Annex XIII PBT/ vPvB	Resin materials* <sup>1</sup> / Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria:Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		
49	EU REACH regulation (EC) No1907/2006 Candidate substances of very high concern (SVHC)	Resin materials* <sup>1</sup> / Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria:Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark		
50	EU REACH regulation (EC) No1907/2006 Annex VII Restricted substances	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria:EU REACH regulation (EC) No1907/2006 (Annex XVII)		
51	CLP regulation (EC) 1272/2008 Annex VI Table 3 CMR Cat.1A, 1B, 2(excluding titanium dioxide.)	Resin materials* <sup>1</sup> / Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII), Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		

No.	Chemical substance group	Scope	Thresholds/ Exemptions
52	CLP regulation (EC) 1272/2008 Annex VI Specified Hazardous Substances* in Table 3 *Specified Hazardous Substances refers to the chemical substances classified in H310, H317, H330, H334, H340, H341, H350, H350i, H351, H360D, H360F, H360Fd, H360FD, H361d, H361f, H370, H371, H372, H373 of Annex VI Table 3.	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		
53	Germany: TRGS905 CMR Cat.1-3	Resin materials* <sup>1</sup> / Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.		
54	Germany: MAK CPM (C Cat.1-2, P Cat.A-B, M Cat.1-2)(excluding antimony compounds.)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Voluntary standards		
55	USA: OSHA 1910 Subpart Z	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Voluntary standards		
56	USA: EPA Carcinogenicity; A, B1, B2	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Voluntary standards		
57	USA: NTP Carcinogenicity; K, R	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Voluntary standards		
58	California: Proposition 65 (cancer, developmental)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Voluntary standards		
59	ACGIH Carcinogenicity; 1A, A2, A3 (excluding carbon black and titanium dioxide.)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Voluntary standards		
60	IARC Group 1, 2A, 2B (excluding carbon black and titanium dioxide.)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Korea; Eco-Mark, Voluntary standards		
61	Japan Society for Occupational Health; Class 1, 2A, 2B (excluding carbon black.)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Voluntary standards		
62	Japan: Chemical Substances Control Law; Class I, II Specified Chemical Substances	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Japan; Chemical Substances Control Law		

No.	Chemical substance group	Scope	Thresholds/ Exemptions
63	Japan: Industrial Safety and Health Act; Prohibition substances of Manufacturing, Permission substances for Manufacturing	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act, Voluntary standards		
64	Japan: Industrial Safety and Health Act; mutagens (chemicals with strong mutagenicity)	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act, Voluntary standards		
65	Korea: Toxic Chemicals Control Act; Prohibited substances, Restricted substances	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Korea; Toxic Chemicals Control Act		
66	China: List of Toxic Chemicals Severely Restricted in the People's Republic of China	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: China; Regulations on Safe Management of Hazardous Chemicals		
67	Toxic and Concerned Chemical Substances Control Act Toxic chemical substances	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Taiwan Toxic and Concerned Chemical Substances Control Act		
68	Vietnam Chemicals Degree No. 113/2017 Annex III List of banned chemicals	Supply materials	Ban on intentional use
	Applicable laws and regulations/ Environmental label criteria: Vietnam Chemicals Degree No. 113/2017		

\*1 Resin materials whose manufacturer, grade and hue are specified by us in drawings of its resin molded parts.

\*2 Plastic articles other than electrical and electronic components outside the scope of RoHS.

## 2-2. Restricted Substances in Products

"Restricted Substances in Products" refers to chemical substances whose future use in our products is prohibited according to laws and regulations at home and abroad as well as environmental label criteria.

Restricted substances in products will be designated as banned substances in products after "Standards on the Management of Certain Chemical Substances" are revised typically 6 months prior to our prohibition date. In consideration of the changeover period to the replacements, the prohibition date is normally set to be 1 year prior to the legally required deadline.

2-2-1. List of restricted substances in products

<Table. 2-2-1>

No.	Chemical substance group	Scope	Scope of chemSHERPA investigation
1	Lead and its compounds	General parts, Printed circuit boards	Yes
2	Mercury and its compounds	General parts, Printed circuit boards	Yes
3	Mineral oil aromatic hydrocarbons consisting of 1 to 7 aromatic rings (MOAH)	Packaging(Ink)/ Product accessories (Ink of printed matter)	No
4	Mineral oil saturated hydrocarbons consisting of 16 to 35 carbon atoms (MOSH)	Packaging(Ink)/ Product accessories (Ink of printed matter)	No

2-2-2. Scopes, thresholds, prohibition date and applicable laws for restricted substances in products

<Table. 2-2-2>

No.	Chemical substance group	CAS No.	Scopes	Thresholds	Date of delivery prohibition
1	Lead and its compounds	-	Exempt uses	Ban on intentional use and 0.1 wt% or below	*
			<Exempt uses>		
			·Lead as an alloying element in steel for machining purposes containing up to 0.35 % lead by weight and in batch hot dip galvanised steel components containing up to 0.2 % lead by weight (RoHS Exemption: 6a-1)		
			·Lead as an alloying element in aluminium containing up to 0.4 % lead by weight, provided it stems from leadbearing aluminium scrap recycling (RoHS Exemption: 6b-I)		
			·Lead as an alloying element in aluminium for machining purposes with a lead content up to 0.4 % by weight (RoHS Exemption: 6b-II)		
			·Copper alloy containing up to 4 % lead by weight (RoHS Exemption: 6c)		
			·Lead in high melting temperature type solders (i.e. leadbased alloys containing 85 % by weight or more lead)(RoHS Exemption: 7a)		
			·Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound (RoHS Exemption: 7c-I)		
			·Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (RoHS Exemption: 7c-II)		

No.	Chemical substance group	CAS No.	Scopes	Thresholds	Date of delivery prohibition
1	Lead and its compounds			·Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors (RoHS Exemption: 7c-IV)	
				·Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages (RoHS Exemption: 15)	
				·Lead in cermet-based trimmer potentiometer elements (RoHS Exemption: 34)	
Applicable laws and regulations/ Environmental label criteria:All ; EU RoHS directive (2011/65/EU)					
2	Mercury and its compounds	-	Exempt uses	Ban on intentional use and 0.1 wt% or below	2024/2/24
				<Exempt uses>	
				·Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Short length ( $\leq 500$ mm) not exceeding (per lamp): 3.5 mg (RoHS Exemption: 3a)	
				·Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Medium length ( $> 500$ mm and $\leq 1\ 500$ mm) not exceeding (per lamp): 5 mg (RoHS Exemption: 3b)	
·Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Long length ( $> 1\ 500$ mm) not exceeding (per lamp): 13 mg (RoHS Exemption:3c)					
Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU)					
3	Mineral oil aromatic hydrocarbons consisting of 1 to 7 aromatic rings (MOAH)	-	Packaging( Ink)/ Product accessories (Ink of printed matter)	0.1wt% or below* *Mineral oil aromatic hydrocarbons consisting of 3 to 7 aromatic rings(MOAH); 0.0001wt% or below	2024/1/1
				Applicable laws and regulations/ Environmental label criteria: French Anti-waste and circular economy law (The Frenc AGECE law)	
4	Mineral oil saturated hydrocarbons consisting of 16 to 35 carbon atoms (MOSH)	-	Packaging( Ink)/ Product accessories (Ink of printed matter)	0.1wt% or below	2024/1/1
				Applicable laws and regulations/ Environmental label criteria: French Anti-waste and circular economy law (The Frenc AGECE law)	

\*Note; In principle, delivery of the parts using exemptions will be prohibited 1 year prior to the legally required deadline.

## 2-3. Monitored Substances in Products

"Monitored Substances in Products" refers to substances for which, according to laws and regulations at home and abroad, such procedures as labeling, notification and communication are required.

### 2-3-1. List of monitored substances in products

<Table. 2-3-1>

No.	Chemical substance group	Scopes	Scope of chemSHERPA investigation
1	Beryllium oxide (BeO)	All	Yes
2	Formaldehyde	All*1	Yes
3	Perchlorates	All	Yes
4	EU REACH regulation (EC) No1907/2006 Candidate substances of very high concern (SVHC)	All	Yes
5	IEC62474 (JIG-101)	All	Yes
6	CLP regulation (EC) 1272/2008 Annex VI Table 3 Hazardous substances(flame retardants)	Resin materials	No
7	CLP regulation (EC) 1272/2008 Annex VI Table 3 Hazardous substances	Supply materials	No
8	Japan: Chemical Substances Control Law; Monitoring Chemical Substances, Priority Assessment Chemical Substances	Supply materials	No
9	Japan: Industrial Safety and Health Act; Hazardous substances to be labeled	Supply materials	No
10	Japan: Industrial Safety and Health Act; Notifiable substances	Supply materials	No
11	Japan: PRTR Law; Class I, II designated chemical substances	Supply materials	No
12	Japan: Poisonous and Deleterious Substances Control Law; Poisonous substances, Deleterious substances	Supply materials	No (Partly)
13	Korea: Toxic Chemicals Control Act; Toxic substances, Substances subject to authorization, Accident Precaution Chemicals	Supply materials	No
14	Substances regulated by USA Toxic Substances Control Act (TSCA) (Article 4, 5, 7, 8, 12, 13 etc.)	Supply materials	No
15	China: Regulations on Safe Management of Hazardous Chemicals target substances; Inventory of Hazardous Chemicals listed substances	Supply materials	No
16	Taiwan: Regulation of Labeling and Hazard Communication of Dangerous and Harmful Materials target substances (Phase I priority substances, Phase II substances, Phase III substances)	Supply materials	No
17	USA: OSHA (PEL) listed substances	Supply materials	No
18	USA: ACGIH (TLVs) listed substances	Supply materials	No
19	Australia: NHOSC1003 (TWA/STEL) listed substances	Supply materials	No
20	Japan: Society for Occupational Health; Listed substances in Recommendation of Occupational Exposure Limits	Supply materials	No
21	China: Workplace Exposure Limits listed substances	Supply materials	No
22	USA: RCRA Hazardous Waste	Supply materials	No
23	USA: EPCRA target substances: SARA Title III;Section 302, 313	Supply materials	No
24	USA: CERCLA Hazardous Substances	Supply materials	No

No.	Chemical substance group	Scopes	Scope of chemSHERPA investigation
25	USA: Clean Air Act (CAA) - air pollutants	Supply materials	No
26	California: Code of Regulations, Title 22 Hazardous Wastes	Supply materials	No
27	Long-chain perfluoroalkyl carboxylate (LCPFAC) chemical substances	All*2	No
28	Tetrabromobisphenol A (TBBPA)	All	Yes
29	Medium-chain chlorinated paraffins (MCCP) C14~17	All	Yes
30	Per- and polyfluoroalkyl substances (PFAS)	All	No
31	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE)	All	Yes
32	Benzidine-based chemical substances	All	No
33	Vietnam Chemicals Degree No. 113/2017 Annex I The list of chemicals subject to conditional production and management in the industrial sector Annex II The list of chemicals restricted from production or trade in the industrial sector Annex IV The list of hazardous chemicals for which chemical incident prevention and response plans are required Annex V The list of chemicals subject to compulsory declarations	Supply materials	No

\*1 Composite Wood

\*2 Surface coating on articles

### 2-3-2. Scope of monitored substances in products, monitoring thresholds, related laws and regulations

<Table. 2-3-2>

No.	Chemical substance group	Scopes	Thresholds
1	Beryllium oxide (BeO)	All	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Industry guidance, Customer requests		
2	Formaldehyde	All	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: California; Formaldehyde Regulation for Composite Wood Products *Composite Wood Products (HWPW-VC, HWPW-CC, PB, MDF, Thin MDF) must comply with the Californian formaldehyde emission regulations (CCR Title 17, Section 93120-93120.12).		
3	Perchlorates	All	more than 6 ppb
	Applicable laws and regulations/ Environmental label criteria: California; Perchlorate Contamination Prevention Act of 2003		
4	EU REACH regulation (EC) No 1907/2006 Candidate substances of very high concern (SVHC) (Appendix 3. see SVHC List)	All	more than 0.1 wt% per the parts
	Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No 1907/2006		
5	IEC62474 (JIG-101)	All	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: EPEAT		
6	CLP regulation (EC) 1272/2008 Annex VI Table 3 Hazardous substances (flame retardants)	Resin materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Northern Europe; ECO DECLARATION		

No.	Chemical substance group	Scopes	Thresholds
7	CLP regulation (EC) 1272/2008 Annex VI Table 3 Hazardous substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: CLP regulation (EC) 1272/2008		
8	Japan: Chemical Substances Control Law; Monitoring Chemical Substances, Priority Assessment Chemical Substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Japan; Chemical Substances Control Law		
9	Japan: Industrial Safety and Health Act; Hazardous substances to be labeled	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act		
10	Japan: Industrial Safety and Health Act; Notifiable substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act		
11	Japan: PRTR Law; Class I, II designated chemical substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Japan; PRTR Law		
12	Japan: Poisonous and Deleterious Substances Control Law; Poisonous substances, Deleterious substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Japan; Poisonous and Deleterious Substances Control Law		
13	Korea: Toxic Chemicals Control Act; Toxic substances, Substances subject to authorization, Accident Precaution Chemicals	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Korea; Toxic Chemicals Control Act		
14	Substances regulated by USA Toxic Substances Control Act (TSCA) (Article 4, 5, 7, 8, 12, 13 etc.)	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA; Toxic Substances Control Act (TSCA)		
15	China: Regulations on Safe Management of Hazardous Chemicals; Listed substances in the Inventory of Hazardous Chemicals	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: China; Regulations on Safe Management of Hazardous Chemicals		
16	Taiwan: Regulation of Labeling and Hazard Communication of Dangerous and Harmful Materials target substances (Phase I priority substances, Phase II substances, Phase III substances)	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Taiwan; Regulation of Labeling and Hazard Communication of Hazardous Chemicals target substances		
17	USA: OSHA (PEL) listed substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA; Hazard Communication Standard (HCS)		
18	USA: ACGIH (TLVs) listed substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA; Hazard Communication Standard (HCS)		
19	Australia: NHOS1003 (TWA/STEL) listed substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Australia; Occupational Safety and Health Act		



No.	Chemical substance group	Scopes	Thresholds
20	Japan: Society for Occupational Health; Listed substances in Recommendation of Occupational Exposure Limits	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS) (JIS Z7253: 2012)		
21	China: Workplace Exposure Limits listed substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: China; General Rules for Preparation of Precautionary Label for Chemicals (GB15258-2009)		
22	USA: RCRA Hazardous Waste	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA; Resource Conservation and Recovery Act (RCRA)		
23	USA: EPCRA target substances: SARA Title III;Section 302, 313	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria:USA; Emergency Planning and Community Rightto-Know Act (EPCRA)		
24	USA: CERCLA Hazardous Substances	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA; The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)		
25	USA: Clean Air Act (CAA) - air pollutants	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA; Clean Air Act (CAA)		
26	California: Code of Regulations, Title 22 Hazardous Wastes	Supply materials	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: California; Code of Regulations, Title 22 Hazardous Wastes		
27	Long-chain perfluoroalkyl carboxylate (LCPFAC) chemical substances	All (Supply materials/ surface coating on articles)	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA Toxic Substances Control Act (TSCA) Significant New Use Rule (SNUR)		
28	Tetrabromobisphenol A (TBBPA)	All	Ban on intentional use and 0.1 wt% or more
	Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU)		
29	Medium-chainchlorinatedparaffins(MCCP) C14~17	All	Ban on intentional use and 0.1 wt% or more
	Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU)		
30	Per- and polyfluoroalkyl substances (PFAS)	All	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: USA Maine An Act To Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution		
31	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE)	All	Intentional addition
	Applicable laws and regulations/ Environmental label criteria: Canada Prohibition of Certain Toxic Substances Regulation		

No.	Chemical substance group	Scopes	Thresholds
32	Benzidine-based chemical substances	All	Intentional addition
Applicable laws and regulations/ Environmental label criteria: USA Toxic Substances Control Act (TSCA) Significant new use rule (SNUR)			
33	Vietnam Chemicals Degree No. 113/2017 Annex I The list of chemicals subject to conditional production and management in the industrial sector Annex II The list of chemicals restricted from production or trade in the industrial sector Annex IV The list of hazardous chemicals for which chemical incident prevention and response plans are required Annex V The list of chemicals subject to compulsory declarations	Supply materials	Intentional addition
Applicable laws and regulations/ Environmental label criteria: Vietnam Chemicals Degree No. 113/2017			

## 2-4. Controlled Substances in Products

Controlled Substances in Products are designated as chemSHERPA declarable substances.

### 2-4-1. chemSHERPA Declarable Substances list (Ver.2.08.00)

<Table. 2-4-1>

No.	Chemical substance group	Scopes
1	Japan: Chemical Substances Control Law; Class I Specified Chemical Substances	Substances·Mixture (CI), Article (AI)
2	US: Toxic Substances Control Act (TSCA); Banned or restricted substances (Section 6)	Substances·Mixture (CI), Article (AI)
3	EU: ELV directive; Regulated substances	Substances·Mixture (CI), Article (AI)
4	EU: RoHS directive; ANNEX II Regulated substances	Substances·Mixture (CI), Article (AI)
5	EU: POPs regulation ANNEX I Regulated substances	Substances·Mixture (CI), Article (AI)
6	EU: REACH regulation; Candidate List of substances of very high concern (SVHC) and Authorisation substances (ANNEX XIV)	Substances·Mixture (CI), Article (AI)
7	EU: REACH regulation ANNEX XVII Restricted substances	Substances·Mixture (CI), Article (AI)
8	(EU) Medical Devices Regulation (MDR) (EU)2017/745 : Annex I 10.4 Substances	Substances·Mixture (CI), Article (AI)
9	the Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products; Regulated substances	Substances·Mixture (CI), Article (AI)
10	Global Automotive Declarable Substance List (GADSL)	Substances·Mixture (CI), Article (AI)
11	IEC 62474 DB Declarable substance groups and declarable substances	Substances·Mixture (CI), Article (AI)

## 2-5. Banned Substances in Production

"Banned Substances in Production" refers to substances that is banned in the production process.

### 2-5-1. List of Banned Substances in Production

<Table. 2-5-1>

No.	Chemical substance group	Scopes
1	Chlorofluorocarbon (CFC)	All
2	Hydrobromofluorocarbon (Specific halon)	All
3	Carbon Tetrachloride (Tetrachloromethane)	All
4	1,1,1-Trichloroethane (methyl chloroform)	All
5	Bromochloromethane	All
6	Bromomethane (methyl chloroform)	All
7	Hydrobromofluorocarbon (HBFC)	All
8	Hydrochlorofluorocarbon (HCFC)	All

### 2-5-2. Applicable processes and laws for Banned Substances in Production

<Table. 2-5-2>

No.	Chemical substance group	Scopes
1	Chlorofluorocarbon (CFC)	All
	Applicable laws and regulations/ Environmental label criteria: All; Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.	
2	Hydrobromofluorocarbon (Specific halon)	All
	Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.	
3	Carbon Tetrachloride (Tetrachloromethane)	All
	Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.	
4	1,1,1-Trichloroethane (methyl chloroform)	All
	Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc.	
5	Bromochloromethane	All
	Applicable laws and regulations/ Environmental label criteria: Montreal Protocol	
6	Bromomethane (methyl chloroform)	All
	Applicable laws and regulations/ Environmental label criteria: Montreal Protocol	
7	Hydrobromofluorocarbon (HBFC)	All
	Applicable laws and regulations/ Environmental label criteria: Montreal Protocol	
8	Hydrochlorofluorocarbon (HCFC)	All
	Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 205), Japan: Eco Mark etc. *It subjects to applicable national laws and regulations of manufacturing countries with the exception of production process of parts including printed circuit board.	

## 2-6. Restricted Substances in Production

"Restricted Substances in Production" refers to chemical substances whose future use in the production process of items delivered to us is prohibited according to laws and regulations at home and abroad as well as environmental label criteria.

### 2-6-1. List of Restricted Substances in Production

<Table. 2-6-1>

No.	Chemical substance group	Scopes
1	unused number	

### 2-6-2. Applicable processes and laws for Restricted Substances in Production

<Table. 2-6-2>

No.	Chemical substance group	Scopes	Restriction Period
1	unused number		

## Chapter 3. Request to customers

### 3-1. Compliance with "Standards on the Management of Certain Chemical Substances"

For items whose compliance with our standards is instructed in our drawings and requirements, please ensure that the banned substances in products respectively designated per subject according to the latest our standards are not used. For banned substances in products whose thresholds are set, please ensure that they are less than the threshold value. Please ensure that our standards are provided to your subcontractors and your suppliers, and that they are instructed to strictly adhere to these standards.

If revision is made to our standards and banned substances in products is newly added, please ensure that the banned substances in products will not be used since the implementation date of the revised standards.

\* If drawings and requirements specifications include instructions on such items as halogen-free products and non-chlorine bleach, please also comply with such instructions.

### 3-2. System for management of Substances Included in Products

To ensure that our standards are continually adhered to, we request that you refer to the Guidelines for the Management of Chemical Substances in Products issued by JAMP and establish your own chemical substance management system.

Please ensure that these management instructions are also given to your subcontractors and your suppliers. In order to perform continuous and reliable management of Substances Included in Products, it is necessary that a management system for chemical substances covering the entire supply chain be built.

Please note that we may perform audits to verify your management system on chemical substances. JAMP (Joint Article Management Promotion-consortium): <https://chemsherpa.net/>

### 3-3. Documents to be submitted

For each delivered product, please provide a non-use certificate and a chemSHERPA-AI/CI by the specified date. Please also submit separately a resin material data sheet for resin materials, a safety data sheet (SDS) for supply materials, and confirmation of material safety/conformity with laws and regulation.

If revision is made to our standards and banned substances (banned substances in products, banned substances in production process) are added or scope, thresholds or exemptions are changed, please re-submit the non-use certificate. Please also re-submit chemSHERPA-AI/CI if restricted substances in products and monitored substances in Products are added to it.

#### 3-3-1. Non-use Certificate

Our chemical substance management system will request submission per item.

For certain customers, the requests will be sent via email.

For the non-use certificate, the following formats are available to fit their respective target categories.

##### I. Non-use Certificate

Firstly, please select a component category (general parts / printed circuit board / power cord / battery / packing materials). Banned substances in products and threshold values vary according to their component categories.

##### II. Non-use Certificate (Resin materials)

##### III. Non-use Certificate (Supply materials)

#### 3-3-2. chemSHERPA-AI/CI

Our chemical substance management system will request submission per item.

For certain customers, the requests will be sent via email.

Please download the latest chemSHERPA-AI/CI format from the chemSHERPA website.

In filling in the chemSHERPA-AI/CI, please refer to the chemSHERPA's explanatory documents on the chemSHERPA website or the "chemSHERPA Article(AI) Creation Guide" on our chemical substance management system. For resin materials and sheet metal materials of some components which are specified by the drawings, our unique chemSHERPA-AI creation means are specified. Please be sure to read our creation guide.

In creating chemSHERPA-AI, please obtain the chemSHERPA-AI and CI of the components and materials from your sub-customers.

For chemSHERPA-AI, "Composition" and "Compliance" are mandatory.

For chemSHERPA-IC, "Composition" is mandatory.

chemSHERPA:<https://chemsherpa.net/chemSHERPA/>

#### 3-3-3. Other formats

The formats for the "resin material information sheet" for resin materials and the "confirmation of material safety/ conformity with laws and regulation" will be accompanied by a request email.

\*To respond the requests from our customer, substances included in products may be individually added, and then, additional request be made for answering survey or non-use or separate certification documents to acquire ecolabels.

\*Please note that sub-materials such as grease, oil or adhesives are treated as chemicals, we may conduct a survey of substances included in products as we do for our supply products.

## 3-4. Provision of analytical data

If use of banned substances in products is suspected, it may be individually requested that the analysis data on the material be submitted. We will individually notify subject items (sections), reason of request and analysis method.

## Chapter 4. Miscellaneous

### 4-1. Modification of information on Substances Included in Products

If any change is made to the submitted information on Substances Included in Products on chemSHERPA-AI and others, please contact our department in charge and re-submit.

### 4-2. Handling of information on Substances Included in Products

The information on substances included in products provided by customers will be used for our substances included in products management. Please also note that for the purpose of disclosure to customers or upon request of administrative agencies, this information may be provided to a third party as part of our information on substances included in products.

### 4-3. Treatment of personal information

Your personal information will be securely stored and strictly used within the purpose of the management of substances included in products.

### 4-4. Contacts

For inquiry on our company, our standards or how to fill in chemSHERPA-AI/CI, please contact the following email.

Reliability Assurance Section 11, Reliability Assurance 1, Corporate Quality Assurance Division :  
kdc.green@dc.kyocera.com

### 4-5. Reference URLs

- EU REACH Regulation (EC) No1907/2006 SVHC  
<http://echa.europa.eu/candidate-list-table>
- EU REACH Regulation (EC) No1907/2006 Annex XIIV Restricted substances  
<https://echa.europa.eu/substances-restricted-under-reach>
- EU CLP Regulation (EC) 1272/2008 Annex VI  
<http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
- USA OSHA 1910 Subpart Z  
[https://www.osha.gov/pls/oshaweb/owastand.display\\_standard\\_group?p\\_toc\\_level=1&p\\_part\\_number=1910](https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1910)
- USA Environmental Protection Agency (EPA) - Carcinogen risk assessment:  
See comprehensive search system for chemical substances by National Institute of Technology and Evaluation.  
[http://www.nite.go.jp/en/chem/chrip/chrip\\_search/systemTop](http://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop)

- USA National Toxicology Program (NTP) - Carcinogenicity evaluation:  
See comprehensive search system for chemical substances by National Institute of Technology and Evaluation.  
[http://www.nite.go.jp/en/chem/chrip/chrip\\_search/systemTop](http://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop)
- California Proposition 65(cancer, developmental)  
[http://www.oehha.ca.gov/prop65/prop65\\_list/Newlist.html#list](http://www.oehha.ca.gov/prop65/prop65_list/Newlist.html#list)
- IARC (International Agency for Research on Cancer)  
<http://monographs.iarc.fr/ENG/Classification/index.php>
- Japan Society for Occupational Health - Carcinogenicity evaluation:  
See comprehensive search system for chemical substances by National Institute of Technology and Evaluation.  
[http://www.nite.go.jp/en/chem/chrip/chrip\\_search/systemTop](http://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop)
- Japan Chemical Substances Control Law - Class I, II Specified Chemical Substances  
<http://www.env.go.jp/chemi/kagaku/kashinkaisei.html>
- Japan Industrial Safety and Health Act - Prohibition substances of Manufacturing, Permission substances for Manufacturing:  
See comprehensive search system for chemical substances by National Institute of Technology and Evaluation.  
[http://www.nite.go.jp/en/chem/chrip/chrip\\_search/systemTop](http://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop)
- Japan Industrial Safety and Health Act - mutagens (chemicals with strong mutagenicity)  
<http://anzeninfo.mhlw.go.jp/user/anzen/kag/ankgc02.htm>
- Japan PRTR Law - Class 1, 2 designated chemical substances  
[http://www.meti.go.jp/policy/chemical\\_management/law/msds/2.html](http://www.meti.go.jp/policy/chemical_management/law/msds/2.html)
- Japan Poisonous and Deleterious Substances Control Law - Poisonous substances, Deleterious substances <http://www.nihs.go.jp/law/dokugeki/edokugeki.html>
- Korea: Toxic Chemicals Control Act (TCCA) - Prohibited substances, Restricted substances  
Korea's National Institute of Environmental Research  
See the chemical information search system, National Institute of Environmental Health Sciences.  
<http://ncis.nier.go.kr/main.do>
- Germany: TRGS905 (Technische Regel für Gefahrstoffe)  
<https://www.baua.de/DE/Angebote/Rechtstexte-und-Technische-Regeln/Regelwerk/TRGS/TRGS-905.html>
- Germany: MAK (List of MAK and BAT Values)  
<https://onlinelibrary.wiley.com/>
- American Conference of Governmental Industrial Hygienists (ACGIH) - No reference URL.  
Related publications are available from the following: ACGIH (<http://www.acgih.org/home>)
- OECD (Organisation for Economic Co-operation and Development): PFAS database  
<https://www.oecd.org/chemicalsafety/portal-perfluorinated-chemicals/>
- US EPA (Environmental Protection Agency): PFAS master list  
<https://comptox.epa.gov/dashboard/chemical-lists/pfasmaster>

## 4-6. Revision record

<Table. 4-6>

Version No.	Issue date	Revision details
1	22-Dec-03	Establishment
2	19-Mar-07	2 substances added to banned materials; 5 substance groups added to managed substances; part of managed substances removed. Added RoHS directive exemption list, list of substances banned for use in consumables, list of managed substances in consumables.
3	01-Apr-08	PFOS added to banned / managed substances. PFOS example substance list added. (Ver3) 1st SVHC added to managed substances. SVHC target substance list added. (Ver3.01)
4	16-Oct-09	DMF added to banned / managed substances. Formaldehyde plywood regulations added to managed substances. (Ver4) 2nd SVHCs added to managed substances. (Ver4.01、 Ver4.02)
5	28-Jun-10	Tri-substituted organostannic compounds added to banned substances. Exempted items added. (Ver5) 3rd SVHCs added to managed substances. (Ver5.01)
6	05-Apr-11	DBT, DOT, HBCDD, EU-approved substances added to banned / managed substances. 4th SVHCs added to managed substances. Exemption list updated. (Ver6) 5th SVHCs added to managed substances. (Ver6.01) 6th SVHCs added to managed substances. Application purposes of perchlorate expanded. Exempted items added. (Ver6.02) 7th SVHCs added to managed substances. 9 substance groups added to Managed Substances in Consumables. (Ver6.03) 8th SVHCs added to managed substances. Exempted items added. (Ver6.04)
7	05-Aug-13	Second and third EU-approved substances added to banned substances. Removed exemptions on cadmium. 9th SVHCs and fluorinated greenhouse gasses added to managed substances.
8	15-Jan-14	Scope and applications of banned substances expanded. PAHs and PFOAs added to banned / managed substances. 10th SVHCs added to managed substances. Managed substance HBCDD removed.
9	15-Jul-14	Exemption of banned substance DBT eliminated. Threshold of mercury compounds modified. Managed Substances in Consumables added. 11th SVHCs added to managed substances. Exempted items added.



Version No.	Issue date	Revision details
10	23-Apr-15	<p>With the shift to the use of AIS/MSDSplus provided by JAMP in the survey of substances included in products, our standards were thoroughly re-examined.</p> <p>Major Revisions</p> <ul style="list-style-type: none"> <li>• BNST classified as banned substances in products.</li> <li>• Changed lead, mercury and cadmium thresholds for banned substances in products in batteries.</li> <li>• Exemptions of PFOS of banned substances in products changed to the expression of exemptions of JAMP AIS.</li> <li>• Changed thresholds of PAHs (banned substances in products) for resin materials.</li> <li>• "PBT substances / vPvB substances" and "substances which are candidates for approval (SVHC)" added to banned substances in products for resin materials.</li> <li>• Changed thresholds of banned substances in products for the supply materials "PCBs and their specific alternative substances" and "PCTs", as well as "perfluorooctanoic acid (PFOA) and its salts and esters".</li> <li>• Added "PBT substances / vPvB substances", "Substances which are candidates for approval (SVHC)", "REACH Annex XVII Restricted Substances", "Nickel and its compounds", "Organotin compounds", "Certain hazardous substances on CLP Annex VI Table 3.1", "List of Toxic Chemicals Severely Restricted to be Imported into or Exported from People Republic of China" to banned substances in products for supply materials.</li> <li>• Newly created "Restricted Substances in Products", "Monitored Substances in Products" and "Surveyed Substances in Products".</li> <li>• Removed "Managed Substances list (products)", "Managed Substance List (consumables)" and "Managed Substance List (manufacturing process)".</li> <li>• 12th SVHC added to Monitored Substances in Products.</li> </ul>
10.1	21-Aug-15	<p>Changed the JAMP declarable substance list to Ver.4.040.</p> <p>Added 13th SVHC. (Appendix 3. No.162 - 163)</p> <p>Added "Dioctyltin(DOT) compounds (JAMP-SN0073)" and "Lithium perchlorate trihydrate" in the Appendix 4 "Example substance list".</p> <p>Correction of errors in writing.</p>
10.2	15-Feb-16	<p>Changed the JAMP declarable substance list to Ver.4.050.</p> <p>Added 14th SVHC. (Appendix 3. No.164 - 168)</p> <p>Added the CAS number of substances covered by SVHC in Appendix 3.</p> <p>Removed the RoHS exemption 7b of Lead because there is no actual use in our products.</p> <p>Added the RoHS exemption 34 of Lead because there was actual use in our products.</p>
10.3	01-Aug-16	<p>Changed the JAMP declarable substance list to Ver.4.060.</p> <p>Added 15th SVHC. (Appendix 3. No.169)</p> <p>Added the CAS number of substances covered by SVHC in Appendix 3.</p> <p>Revised the CAS number of example substances covered in Appendix4.</p> <p>Changed the Reference URLs in Chapter 4.</p>

Version No.	Issue date	Revision details
10.4	06-Mar-17	<p>Changed the JAMP declarable substance list to Ver.4.070.</p> <p>Added 16th SVHC. (Appendix 3. No.170 - 173)</p> <p>Added the CAS number of substances covered by SVHC in Appendix 3.</p> <p>Changed the thresholds for HBCDD of banned substances in products to "Ban on intentional use and 0.01wt% or below".</p> <p>Correction of errors in writing.</p>
10.5	04-Sep-17	<p>Changed the JAMP declarable substance list to Ver.4.080.</p> <p>Added 17th SVHC. (Appendix 3. No.174)</p> <p>Added the CAS number of substances covered by SVHC in Appendix 3.</p> <p>"Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances" added to restricted substances in products.</p> <p>Modified wording from "Scheduled prohibition date" to "Date of delivery prohibition" in Table 2-2-2.</p> <p>Changed the Blue Angel Mark of environmental label criteria to RAL-UZ 205.</p> <p>Changed the Reference URLs in Chapter 4.</p>
10.6	09-Mar-18	<p>Changed the JAMP declarable substance list to Ver.4.090.</p> <p>Added chemSHERPA-AI/CI as the submitted documents. (chemSHERPA declarable substance list Ver.1.05.00.)</p> <p>Added 18th SVHC. (Appendix 3. No.175-181)</p> <p>Removed Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) from the Banned Substances in Products.</p> <p>Extended the scope of monitored substances in products for resin materials.</p> <p>Changed targeted substances of the "China: Regulations on Safe Management of Hazardous Chemicals" as Monitored Substances in Products.</p> <p>Changed expression of "Substances in Products to be surveyed" to "Controlled Substances in Products".</p> <p>Changed CLP regulation EC) 1272/2008 Annex VI "Table3.1" to "Table 3".</p> <p>Changed the Reference URLs in Chapter 4.</p>
11.0	20-Sep-18	<p>Changed Phthalate (DEHP, DBP, BBP, DIBP) from "Restricted Substances" to "Banned Substances".</p> <p>Deleted "DEHP, DBP, BBP" from Specific Phthalate as banned substances in products.</p> <p>Revised RoHS exemptions for lead 6a, 6b. ((EU) 2018/739, (EU) 2018/740)</p> <p>Designated a denominator of threshold for PFOA of Restricted Substances in Products. Newly set "2-6 Restricted Substances in Production" in Chapter 2 to add Hydrochlorofluorocarbon (HCFC).</p> <p>Changed "Controlled Substances in Products" from "JAMP declarable substances" to "chemSHERPA declarable substances". (chemSHERPA declarable substance list Ver.1.06.00.)</p> <p>Added 19th SVHC. (Appendix 3. No.182-191)</p> <p>Deleted "JAMP AIS (MSDS plus)" from "3-3. Documents to be submitted" and added explanation of chemSHERPA.</p> <p>Added "inks and cleaning liquids" to Supply materials of "1-3. Terms and Definitions".</p> <p>Changed the Reference URLs in Chapter 4.</p> <p>Added and deleted some example substances from "Appendix 4. Example substance list".</p>

Version No.	Issue date	Revision details
11.1	15-Apr-19	<p>Added Phthalate (DEHP, DBP, BBP, DIBP) to Restricted Substances in Products.</p> <p>Changed "China: List of Toxic Chemicals Severely Restricted for Import and Export" of Banned Substances in Products to "China: List of Toxic Chemicals Severely Restricted in the People's Republic of China".</p> <p>Correction of "intentional use", Terms and Definitions.</p> <p>Added 20th SVHC. (Appendix 3. No.192-197)</p> <p>Changed the Reference URLs in Chapter 4.</p>
11.2	27-Sep-19	<p>Changed Phthalate (DEHP, DBP, BBP, DIBP) regulated by the EU REACH Regulation from "Restricted Substances" to "Banned Substances".</p> <p>Changed "Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances" from "Restricted Substances" to "Banned Substances".</p> <p>Added exempted substances to [California: Proposition 65(cancer, developmental)], [Japan Society for Occupational Health; Class 1, 2A, 2B] of "Banned Substances in Products" .</p> <p>Added 21th SVHC. (Appendix 3. No.198-201)</p> <p>Changed regulation number of EU POPs regulation.</p>
11.3	01-Sep-20	<p>Changed the scope of hydrochlorofluorocarbons (HCFCs), a Banned Substances in Production, to "All".</p> <p>Changed the applicable laws and regulations of "Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances".</p> <p>Added 21th and 23th SVHC. (Appendix 3. No.202-209)</p> <p>Changed the version of chemSHERPA declarable substance list (Ver.2.00.00 -&gt; Ver.2.01.00)</p> <p>Changed the information on section and department of contact person</p>
12	21-Sep-21	<p>Added PBT substances (four substances) of USA Toxic Substances Control Act (TSCA) to Restricted Substances in Products.</p> <p>Added Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9C14 PFCAs), their salts and C9-C14 PFCA-related substances, and Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances to Restricted Substances in Products.</p> <p>Added 24th and 25th SVHC. (Appendix 3. No.210-219)</p> <p>Added Long-chain perfluoroalkyl carboxylate (LCPFAC) chemical substances to Monitored Substances in Products.</p> <p>Changed the version of chemSHERPA declarable substance list (Ver.2.01.00 -&gt; Ver.2.04.00)</p>

Version No.	Issue date	Revision details
13	07-Oct-22	<p>Changed "Kyocera Environmental Charter (an abstract)" to "Kyocera Group Environmental Safety Policy".</p> <p>Changed PBT substances (four substances) of USA Toxic Substances Control Act (TSCA), C9-C14 PFCAs and its salts and C9-C14 PFCA-related substances, Perfluorohexane sulfonic acid (PFHxS) and its salts and PFHxS-related substances from "Restricted Substances in Products" to "Banned Substances in Products".</p> <p>Added mineral oil aromatic hydrocarbons consisting of 1 to 7 aromatic rings (MOAH) to "Banned Substances in Products".</p> <p>Added Dechlorane Plus™ and UV-328 to "Restricted Substances in Products".</p> <p>Added mineral oil aromatic hydrocarbons consisting of 1 to 7 aromatic rings (MOAH) and mineral oil saturated hydrocarbons consisting of 16 to 35 carbon atoms (MOSH) to "Restricted Substances in Products".</p> <p>Added the 26th and 27th SVHCs. (Appendix 3. No.220-224)</p> <p>Added Tetrabromobisphenol A (TBBPA), Medium-chainchlorinatedparaffins(MCCP) C14~17, Perfluoroalkyl and Per- and polyfluoroalkyl substances (PFAS) to "Monitored Substances in Products".</p> <p>Changed the version of chemSHERPA declarable substance list (Ver.2.04.00 -&gt; Ver.2.06.00)</p>
14	30-Nov-23	<p>Added Pentachlorophenol (PCP) which is subject to the Stockholm Convention and the EU POPs Regulation to "Banned Substances in Products".</p> <p>Changed Dechlorane Plus™ and UV-328, which are subject to the Stockholm Convention from "Restricted Substances in Products" to "Banned Substances in Products".</p> <p>Added the toxic chemical substances of Taiwan Toxic and Concerned Chemical Substances Control Act and the Vietnam Chemicals Degree No. 113/2017 Annex III list of banned chemicals to the "Banned Substances in Products".</p> <p>Added 1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE), Benzidine-based chemical substances and Vietnam's substances to "Monitored substances in products".</p> <p>Added 28th and 29th SVHC. (Appendix 3. No.225-235)</p> <p>Changed the version of chemSHERPA declarable substance list (Ver.2.06.00 -&gt; Ver.2.08.00)</p> <p>For chemSHERPA-AI, changed "Compliance" to mandatory.</p>

## Appendix1. List of Specific Amines

A list of 22 specific amines in total of "Azo compounds to form specific amines " which is one of the banned chemicals.

No.	Substance name	Chemical Formula	CAS No.
1	4-amino azobenzene'	C <sub>12</sub> H <sub>11</sub> N <sub>3</sub>	60-09-3
2	o-anisidine	C <sub>7</sub> H <sub>9</sub> NO	90-04-0
3	2-naphthylamine	C <sub>10</sub> H <sub>9</sub> N	91-59-8
4	3,3'-dichlorobenzidine	C <sub>12</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub>	91-94-1
5	4-Aminodiphenyl	C <sub>12</sub> H <sub>11</sub> N	92-67-1
6	Benzidine	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub>	92-87-5
7	o-toluidine	C <sub>7</sub> H <sub>9</sub> N	95-53-4
8	4-chloro-o-toluidine	C <sub>7</sub> H <sub>8</sub> ClN	95-69-2
9	4-methyl-m-phenylenediamine	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub>	95-80-7
10	o-aminoazotoluene	C <sub>14</sub> H <sub>15</sub> N <sub>3</sub>	97-56-3
11	5-nitro-o-toluidine	C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>	99-55-8
12	4,4'-methylenebis[2-chloroaniline]	C <sub>13</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub>	101-14-4
13	4,4'-methylenedianiline	C <sub>13</sub> H <sub>14</sub> N <sub>2</sub>	101-77-9
14	4,4'-oxydianiline	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O	101-80-4
15	r-chloroaniline	C <sub>6</sub> H <sub>6</sub> ClN	106-47-8
16	3,3'-Dimethoxybenzidine	C <sub>14</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>	119-90-4
17	3,3'-dimethylbenzidine	C <sub>14</sub> H <sub>16</sub> N <sub>2</sub>	119-93-7
18	6-methoxy-m-toluidine	C <sub>8</sub> H <sub>11</sub> NO	120-71-8
19	2,4,5-trimethylaniline	C <sub>9</sub> H <sub>13</sub> N	137-17-7
20	4,4'-thiodianiline	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> S	139-65-1
21	4-methoxy-m-phenylenediamine	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O	615-05-4
22	4,4'-methylenedi-o-toluidine	C <sub>15</sub> H <sub>18</sub> N <sub>2</sub>	838-88-0

## Appendix2. PAHs List

A list of aromatic hydrocarbons (PAHs) and their thresholds

No.	Substance name	Chemical Formula	CAS No.	Power cord thresholds (ppm)	Resin materials thresholds (ppm)
1	Benzo[a]pyrene	C <sub>20</sub> H <sub>12</sub>	50-32-8	<20	<1
2	Benzo[e]pyrene	C <sub>20</sub> H <sub>12</sub>	192-97-2		<1
3	Benz[a]anthracene	C <sub>18</sub> H <sub>12</sub>	56-55-3		<1
4	Benzo[b]fluoranthene	C <sub>20</sub> H <sub>12</sub>	205-99-2		<1

No.	Substance name	Chemical Formula	CAS No.	Power cord thresholds (ppm)	Resin materials thresholds (ppm)
5	Benzo[j]fluoranthene	C <sub>20</sub> H <sub>12</sub>	205-82-3		<1
6	Benzo[k]fluorathene	C <sub>20</sub> H <sub>12</sub>	207-08-9		<1
7	Chrysene	C <sub>18</sub> H <sub>12</sub>	218-01-9		<1
8	Dibenz[a,h]anthracene	C <sub>22</sub> H <sub>14</sub>	53-70-3		<1
9	Benzo[ghi]perylene	C <sub>22</sub> H <sub>12</sub>	191-24-2		
10	Indeno[1,2,3-cd]pyrene	C <sub>22</sub> H <sub>12</sub>	193-39-5		
11	Acenaphthene	C <sub>12</sub> H <sub>10</sub>	83-32-9		
12	Acenaphthylene	C <sub>12</sub> H <sub>8</sub>	208-96-8		
13	Anthracene	C <sub>14</sub> H <sub>10</sub>	120-12-7		
14	Fluoranthene	C <sub>16</sub> H <sub>10</sub>	206-44-0		
15	Fluorene	C <sub>13</sub> H <sub>10</sub>	86-73-7		
16	Phenanthrene	C <sub>14</sub> H <sub>10</sub>	85-01-8		
17	Pyrene	C <sub>16</sub> H <sub>10</sub>	129-00-0		
18	Naphthalene	C <sub>10</sub> H <sub>8</sub>	91-20-3		
	Sum 18 PAH	-	-	<200	<200

### Appendix3. SVHC

A list of SVHCs which notification and information provision is required according to the EU REACH Regulation (EC No.1907/2006)

No.	Substances group	CAS number	Date o inclusion
1	Anthracene	120-12-7	28.10.2008
2	4,4'- Diaminodiphenylmethane	101-77-9	28.10.2008
3	Dibutyl phthalate (DBP)	84-74-2	28.10.2008
4	Cobalt dichloride	7646-79-9	28.10.2008
5	Diarsenic pentaoxide	1303-28-2	28.10.2008
6	Diarsenic trioxide	1327-53-3	28.10.2008
7	Sodium dichromate	7789-12-0 10588-01-9	28.10.2008
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	28.10.2008

No.	Substances group	CAS number	Date o inclusion
9	Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	28.10.2008
10	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified* <sup>1</sup> ( $\alpha$ - HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	28.10.2008
11	Alkanes, C10-13, chloro* <sup>1</sup> (Short Chain Chlorinated Paraffins)	85535-84-8	28.10.2008
12	Bis(tributyltin)oxide (TBTO)	56-35-9	28.10.2008
13	Lead hydrogen arsenate	7784-40-9	28.10.2008
14	Triethyl arsenate	15606-95-8	28.10.2008
15	Benzyl butyl phthalate (BBP)	85-68-7	28.10.2008
16	Anthracene oil	90640-80-5	13.01.2010
17	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	13.01.2010
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	13.01.2010
19	Anthracene oil, anthracene-low	90640-82-7	13.01.2010
20	Anthracene oil, anthracene paste	90640-81-6	13.01.2010
21	Pitch, coal tar, high temp.	65996-93-2	13.01.2010
22	2,4-Dinitrotoluene	121-14-2	13.01.2010
23	Diisobutyl phthalate (DIBP)	84-69-5	13.01.2010
24	Lead chromate	7758-97-6	13.01.2010
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	13.01.2010
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	13.01.2010
27	Tris(2-chloroethyl)phosphate	115-96-8	13.01.2010
28	Acrylamide	79-06-1	30.03.2010
29	Trichloroethylene	79-01-6	18.06.2010
30	Boric acid	10043-35-3 11113-50-1	18.06.2010
31	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	18.06.2010
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	18.06.2010
33	Sodium chromate	7775-11-3	18.06.2010
34	Potassium chromate	7789-00-6	18.06.2010
35	Ammonium dichromate	7789-09-5	18.06.2010
36	Potassium dichromate	7778-50-9	18.06.2010
37	Cobalt(II) sulphate	10124-43-3	15.12.2011
38	Cobalt(II) dinitrate	10141-05-6	15.12.2011
39	Cobalt (II) carbonate	513-79-1	15.12.2011

No.	Substances group	CAS number	Date o inclusion
40	Cobalt(II) diacetate	71-48-7	15.12.2011
41	2-Methoxyethanol	109-86-4	15.12.2011
42	2-Ethoxyethanol	110-80-5	15.12.2011
43	Chromium trioxide	1333-82-0	15.12.2011
44	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2 SN0071*2	15.12.2011
45	2-Ethoxyethyl acetate	111-15-9	20.06.2011
46	Strontium chromate	7789-06-2	20.06.2011
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	68515-42-4	20.06.2011
48	Hydrazine	302-01-2 7803-57-8	20.06.2011
49	1-Methyl-2-pyrrolidone	872-50-4	20.06.2011
50	1,2,3-Trichloropropane	96-18-4	20.06.2011
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	20.06.2011
52	Lead styphnate	15245-44-0	19.12.2011
53	Lead diazide, Lead azide	13424-46-9	19.12.2011
54	Lead dipicrate	6477-64-1	19.12.2011
55	Phenolphthalein	77-09-8	19.12.2011
56	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	19.12.2011
57	N,N-dimethylacetamide	127-19-5	19.12.2011
58	Trilead diarsenate	3687-31-8	19.12.2011
59	Calcium arsenate	7778-44-1	19.12.2011
60	Arsenic acid	7778-39-4	19.12.2011
61	Bis(2-methoxyethyl) ether	111-96-6	19.12.2011
62	1,2-dichloroethane	107-06-2	19.12.2011
63	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	19.12.2011
64	2-Methoxyaniline; o-Anisidine	90-04-0	19.12.2011
65	Bis(2-methoxyethyl) phthalate	117-82-8	19.12.2011
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	19.12.2011
67	Zirconia Aluminosilicate Refractory Ceramic Fibres* <sup>3</sup>	SN0055*2	19.12.2011
68	Aluminosilicate Refractory Ceramic Fibres* <sup>4</sup>	SN0007*2	19.12.2011
69	Pentazinc chromate octahydroxide	49663-84-5	19.12.2011
70	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	19.12.2011
71	Dichromium tris(chromate)	24613-89-6	19.12.2011
72	1,2-bis(2-methoxyethoxy)ethane ( TEGDME; triglyme)	112-49-2	18.06.2012
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	18.06.2012



No.	Substances group	CAS number	Date o inclusion
74	Diboron trioxide	1303-86-2	18.06.2012
75	Formamide	75-12-7	18.06.2012
76	Lead(II) bis(methanesulfonate)	17570-76-2	18.06.2012
77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	18.06.2012
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)trione ( $\beta$ -TGIC)	59653-74-6	18.06.2012
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone )	90-94-8	18.06.2012
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	18.06.2012
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)* <sup>5</sup>	2580-56-5	18.06.2012
82	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)* <sup>5</sup>	548-62-9	18.06.2012
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol* <sup>5</sup>	561-41-1	18.06.2012
84	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol(C.I. Solvent Blue 4)* <sup>5</sup>	6786-83-0	18.06.2012
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	19.12.2012
86	Pentacosaflluorotridecanoic acid	72629-94-8	19.12.2012
87	Tricosaflluorododecanoic acid	307-55-1	19.12.2012
88	Henicosaflluoroundecanoic acid	2058-94-8	19.12.2012
89	Heptacosaflluorotetradecanoic acid	376-06-7	19.12.2012
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	19.12.2012
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]* <sup>6</sup>	85-42-7 13149-00-3 14166-21-3	19.12.2012
92	Hexahydromethylphthalic anhydride [1] Hexahydro-4-methylphthalic anhydride [2] Hexahydro-1-methylphthalic anhydride [3] Hexahydro-3-methylphthalic anhydride [4]* <sup>7</sup>	25550-51-0 19438-60-9 48122-14-1 57110-29-9	19.12.2012
93	4-Nonylphenol, branched and linear* <sup>8</sup>	SN0082*2	19.12.2012
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated* <sup>9</sup>	SN0081*2	19.12.2012
95	Methoxyacetic acid	625-45-6	19.12.2012
96	N,N-dimethylformamide	68-12-2	19.12.2012
97	Dibutyltin dichloride (DBTC)	683-18-1	19.12.2012
98	Lead monoxide (Lead oxide)	1317-36-8	19.12.2012
99	Orange lead (Lead tetroxide)	1314-41-6	19.12.2012
100	Lead bis(tetrafluoroborate)	13814-96-5	19.12.2012
101	Trilead bis(carbonate)dihydroxide	1319-46-6	19.12.2012
102	Lead titanium trioxide	12060-00-3	19.12.2012
103	Lead titanium zirconium oxide	12626-81-2	19.12.2012
104	Silicic acid, lead salt	11120-22-2	19.12.2012
105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped* <sup>10</sup>	68784-75-8	19.12.2012
106	1-bromopropane (n-propyl bromide)	106-94-5	19.12.2012
107	Methyloxirane (Propylene oxide)	75-56-9	19.12.2012
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	19.12.2012

No.	Substances group	CAS number	Date o inclusion
109	Diisopentylphthalate (DIPP)	605-50-5	19.12.2012
110	N-pentyl-isopentylphthalate	776297-69-9	19.12.2012
111	1,2-diethoxyethane	629-14-1	19.12.2012
112	Acetic acid, lead salt, basic	51404-69-4	19.12.2012
113	Lead oxide sulfate	12036-76-9	19.12.2012
114	[Phthalato(2-)]dioxotrilead	69011-06-9	19.12.2012
115	Dioxobis(stearato)trilead	12578-12-0	19.12.2012
116	Fatty acids, C16-18, lead salts	91031-62-8	19.12.2012
117	Lead cyanidate	20837-86-9	19.12.2012
118	Lead dinitrate	10099-74-8	19.12.2012
119	Pentalead tetraoxide sulphate	12065-90-6	19.12.2012
120	Pyrochlore, antimony lead yellow	8012-00-8	19.12.2012
121	Sulfurous acid, lead salt, dibasic	62229-08-7	19.12.2012
122	Tetraethyllead	78-00-2	19.12.2012
123	Tetralead trioxide sulphate	12202-17-4	19.12.2012
124	Trilead dioxide phosphonate	12141-20-7	19.12.2012
125	Furan	110-00-9	19.12.2012
126	Diethyl sulphate	64-67-5	19.12.2012
127	Dimethyl sulphate	77-78-1	19.12.2012
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	19.12.2012
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	19.12.2012
130	4,4'-methylenedi-o-toluidine	838-88-0	19.12.2012
131	4,4'-oxydianiline and its salts	101-80-4	19.12.2012
132	4-aminoazobenzene	60-09-3	19.12.2012
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	19.12.2012
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	19.12.2012
135	Biphenyl-4-ylamine	92-67-1	19.12.2012
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	19.12.2012
137	o-toluidine	95-53-4	19.12.2012
138	N-methylacetamide	79-16-3	19.12.2012
139	Cadmium	7440-43-9	20.06.2013
140	Cadmium oxide	1306-19-0	20.06.2013
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	20.06.2013
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	20.06.2013
143	Dipentyl phthalate (DPP)	131-18-0	20.06.2013
144	4-Nonylphenol, branched and linear, ethoxylated* <sup>11</sup>	SN0083*2	20.06.2013
145	Cadmium sulphide	1306-23-6	16.12.2013
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1sulphonate) (C.I. Direct Red 28)	573-58-0	16.12.2013
147	Disodium 4-amino-3'-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	16.12.2013
148	Dihexyl phthalate	84-75-3	16.12.2013

No.	Substances group	CAS number	Date o inclusion
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	16.12.2013
150	Lead di(acetate)	301-04-2	16.12.2013
151	Trixylyl phosphate	25155-23-1	16.12.2013
152	Cadmium chloride	10108-64-2	16.06.2014
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	16.06.2014
154	Sodium peroxometaborate	7632-04-4	16.06.2014
155	Sodium perborate; perboric acid, sodium salt* <sup>1</sup>	15120-21-5 11138-47-9 (13517-20-9, 37244-98-7, 10332-33-9, 10486-00-7)	16.06.2014
156	Cadmium fluoride	7790-79-6	17.12.2014
157	Cadmium sulphate	10124-36-4 31119-53-6	17.12.2014
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	17.12.2014
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	17.12.2014
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	17.12.2014
161	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) * <sup>12</sup>	SN0084*2	17.12.2014
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters* <sup>13</sup> ; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters* <sup>13</sup>	68515-51-5 68648-93-1	15.06.2015
163	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]* <sup>14</sup>	SN0085*2	15.06.2015
164	1,3-propanesultone	1120-71-4	17.12.2015
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	17.12.2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	17.12.2015
167	Nitrobenzene	98-95-3	17.12.2015
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	17.12.2015
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	20.06.2016
170	4,4'-isopropylidenediphenol (Bisphenol A; BPA)	80-05-7	12.01.2017
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	12.01.2017

No.	Substances group	CAS number	Date o inclusion
172	p-(1,1-dimethylpropyl)phenol	80-46-6	12.01.2017
173	4-heptylphenol, branched and linear*15	SN0089*2	12.01.2017
174	Perfluorohexane-1-sulphonic acid and its salts	SN0090*2	07.07.2017
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ('Dechlorane Plus™') [covering any of its individual anti- and syn-isomers or any combination thereof]	13560-89-9 135821-03-3 135821-74-8	01.15.2018
176	Benz[a]anthracene	56-55-3 1718-53-2	01.15.2018
177	Cadmium carbonate	513-78-0	01.15.2018
178	Cadmium hydroxide	21041-95-2	01.15.2018
179	Cadmium nitrate	10022-68-1 10325-94-7	01.15.2018
180	Chrysene	218-01-9 1719-03-5	01.15.2018
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	SN0091	01.15.2018
182	Benzo[ghi]perylene	191-24-2	06.27.2018
183	Decamethylcyclopentasiloxane (D5)	541-02-6	06.27.2018
184	Disodium octaborate	12008-41-2	06.27.2018
185	Dodecamethylcyclohexasiloxane (D6)	540-97-6	06.27.2018
186	Ethylenediamine (EDA)	107-15-3	06.27.2018
187	Lead	7439-92-1	06.27.2018
188	Octamethylcyclotetrasiloxane (D4)	556-67-2	06.27.2018
189	Terphenyl hydrogenated	61788-32-7	06.27.2018
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	06.27.2018
191	Dicyclohexyl phthalate (DCHP)	84-61-7	06.27.2018
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	01.15.2019
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	01.15.2019
194	Benzo[k]fluoranthene	207-08-9	01.15.2019
195	Fluoranthene	206-44-0 93951-69-0	01.15.2019
196	Phenanthrene	85-01-8	01.15.2019
197	Pyrene	129-00-0 1718-52-1	01.15.2019
198	2-methoxyethyl acetate	110-49-6	07.16.2019
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	SN0099	07.16.2019
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	SN0098	07.16.2019

No.	Substances group	CAS number	Date o inclusion
201	4-tert-butylphenol	98-54-4	07.16.2019
202	Perfluorobutane sulfonic acid (PFBS) and its salts	SN0104	01.16.2020
203	Diisohexyl phthalate	71850-09-4	01.16.2020
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	01.16.2020
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	01.16.2020
206	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	06.25.2020
207	Butyl 4-hydroxybenzoate	94-26-8	06.25.2020
208	2-methylimidazole	693-98-1	06.25.2020
209	1-vinylimidazole	1072-63-5	06.25.2020
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	01.19.2021
211	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	SN0108	01.19.2021
212	1,4-dioxane	123-91-1	07.08.2021
213	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)	3296-90-0 36483-57-5 1522-92-5 96-13-9	07.08.2021
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	75166-31-3 80-54-6 75166-30-2	07.08.2021
215	4,4'-(1-Methylpropylidene)bisphenol	77-40-7	07.08.2021
216	Glutaral; Glutaraldehyde; Pentane-1,5-dial; Pentanedial	111-30-8	07.08.2021
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	SN1022	07.08.2021
218	Orthoboric acid, sodium salt	13840-56-7 25747-83-5 22454-04-2 14312-40-4 1333-73-9 14890-53-0	07.08.2021
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	SN1021	07.08.2021
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol; [DBMC]	119-47-1	01.17.2022
221	Tris(2-methoxyethoxy)vinylsilane; 6-(2-methoxyethoxy)-6-vinyl-2,5,7,10-tetraoxa-6-silaundecane	1067-53-4	01.17.2022

No.	Substances group	CAS number	Date o inclusion
222	(±)-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)	36861-47-9 1782069-81-1 95342-41-9 852541-30-1 852541-21-0 741687-98-9 852541-25-4	01.17.2022
223	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	01.17.2022
224	N-(hydroxymethyl)acrylamide; methylolacrylamide; [NMA]	924-42-5	06.10.2022
225	1,1'-[Ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	01.17.2023
226	2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol	79-94-7	01.17.2023
227	4,4'-Sulphonyldiphenol (BPS)	80-09-1	01.17.2023
228	Barium diboron tetraoxide	13701-59-2	01.17.2023
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	SN1045	01.17.2023
	Bis(2-ethylhexyl)tetrabromophthalate	26040-51-7	
230	Isobutyl 4-hydroxybenzoate	4247-02-3	01.17.2023
231	Melamine	108-78-1	01.17.2023
232	Perfluoroheptanoic acid and its salts	375-85-9 6130-43-4 21049-36-5 20109-59-5 SN1044	01.17.2023
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	SN1043	01.17.2023
234	bis(4-chlorophenyl) sulphone	80-07-9	06.14.2023
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	06.14.2023

\*1: The substance classified into the this substances group also includes substances other than the CAS number listed in this table. (Please refer to ECHA website.)

\*2: It means substances being assigned SN (Substance Number).

The CAS number of example substances are shown below.

SN0081 : CAS No. 2315-61-9, 2315-67-5, 2497-59-8, 9002-93-1

SN0082 : CAS No. 104-40-5, 142731-63-3, 17404-66-9, 186825-36-5, 26543-97-5, 30784-30-6, 52427-13-1, 84852-15-3

SN0083 : CAS No. 14409-72-4, 20427-84-3, 26027-38-3, 27942-27-4, 34166-38-6, 7311-27-5, 104-35-8, 127087-87-0, 156609-10-8, 37205-87-1

SN0085 : CAS No. 117933-89-8, 186309-28-4, 343934-04-3, 343934-05-4, 676367-02-5, 676367-03-6, 676367-04-7, 676367-05-8, 676367-06-9, 676367-07-0, 676367-08-1, 676367-09-2

SN0089 : CAS No. 100532-36-3, 102570-52-5, 1139800-98-8, 1824346-00-0, 1987-50-4, 288864-02-8, 30784-27-1, 30784-31-7, 30784-32-8, 33104-11-9, 37872-24-5, 6465-71-0, 6465-74-3, 6863-24-7, 71945-81-8, 72624-02-3, 72861-06-4,

854904-92-0, 854904-93-1, 857629-71-1, 861010-65-3, 861011-60-1, 911370-98-4, 911371-06-7, 911371-07-8

SN0090 : CAS No. 355-46-4, 3871-99-6, 41184-65-0, 41242-12-0, 55120-77-9, 68259-08-5, 70136-72-0, 70225-16-0, 72033-41-1, 82382-12-5, 92011-17-1, 108427-54-9, 108427-55-0, 144116-10-9, 153443-35-7, 189274-31-5, 202189-84-2,

213740-81-9, 341035-71-0, 341548-85-4, 350836-93-0, 421555-73-9, 421555-74-0, 425670-70-8, 866621-50-3, 910606-39-2, 911027-68-4, 911027-69-5, 928049-42-7, 1000597-52-3, 1187817-57-7, 1310480-24-0, 1310480-27-3, 1310480-28-4,

1329995-45-0, 1329995-69-8, 1462414-59-0

SN0108: CAS No. 3648-18-8, 91648-39-4

SN1022: CAS No. 1372804-76-6, 85535-85-9, 198840-65-2, 61788-76-9, 68920-70-7, 84082-38-2, 97659-46-6, 84776-06-7,

85536-22-7, 84776-07-8, 85049-26-9, 85422-92-0, 97553-43-0, 108171-26-2, 85681-73-8, 71011-12-6

SN1021: CAS No. 121158-58-5, 74499-35-7, 210555-94-5, 27459-10-5, 57427-55-1, 27147-75-7

\*3: Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions:

- a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges
- b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres ( $\mu\text{m}$ ).
- c) alkaline oxide and alkali earth oxide ( $\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$ ) content less or equal to 18% by weight

\*4: Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions:

- a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges
- b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres ( $\mu\text{m}$ )
- c) alkaline oxide and alkali earth oxide ( $\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$ ) content less or equal to 18% by weight

\*5: with  $\geq 0.1\%$  of Michler's ketone (CAS No.90-94-8) or Michler's base (CAS No.101-61-1)

\*6: The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry.

\*7: The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry.

\*8: substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof

\*9: covering well-defined substances and UVCB substances, polymers and homologues

- \*10: with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008.
- \*11: substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof
- \*12: It is stated as reaction product, however, it means "the substances which consist of DOTE and MOTE", in practice.
- \*13: with  $\geq 0.3\%$  of dihexyl phthalate (CAS No. 84-75-3)
- \*14: covering any of the individual stereoisomers of [1] and [2] or any combination thereof
- \*15: substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof

<Please see also references>

\*Candidate List of SVHC of ECHA website <http://echa.europa.eu/candidate-list-table>



## Appendix4. Example substance list

No.	Chemical substance group	Chemical name	CAS No.
1	Lead and its compounds	Lead	7439-92-1
		Lead hydrogen arsenate	7784-40-9
		Lead(II) carbonate	598-63-0
		Lead(IV) oxide	1309-60-0
		Lead(II,IV) oxide	1314-41-6
		Lead(II) sulfide	1314-87-0
		Lead(II) oxide	1317-36-8
		Lead(II) carbonate basic	1319-46-6
		Lead hydroxidcarbonate	1344-36-1
		Lead(II) sulfate	7446-14-2
		Lead(II) phosphate	7446-27-7
		Lead(II) chromate	7758-97-6
		Lead(II) titanate	12060-00-3
		Lead sulfate,sulphuric acid, lead salt	15739-80-7
		Lead di(acetate)	301-04-2
		Acetic acid, lead(2+) salt, trihydrate	6080-56-4
		lead selenide	12069-00-0
		Lead oxide sulfate (Pb4O3(SO4))	12202-17-4
		Lead distearate	1072-35-1
		Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
		Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
		Lead styphnate	15245-44-0
		Lead diazide, Lead azide	13424-46-9
		Lead dipicrate	6477-64-1
		Trilead diarsenate	3687-31-8
		Lead(II) bis(methanesulfonate)	17570-76-2
		Lead bis(tetrafluoroborate)	13814-96-5
		Lead titanium zirconium oxide	12626-81-2
		Silicic acid, lead salt	11120-22-2
		Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped	68784-75-8
		Acetic acid, lead salt, basic	51404-69-4
		Lead oxide sulfate	12036-76-9
		[Phthalato(2-)]dioxotrilead	69011-06-9
		Dioxobis(stearato)trilead	12578-12-0
		Fatty acids, C16-18, lead salts	91031-62-8
		Lead cynamidate	20837-86-9
		Lead dinitrate	10099-74-8
		Pentalead tetraoxide sulphate	12065-90-6
		Pyrochlore, antimony lead yellow	8012-00-8
		Sulfurous acid, lead salt, dibasic	62229-08-7
Tetraethyllead	78-00-2		
Trilead dioxide phosphonate	12141-20-7		
Other lead compounds	SN0023		

No.	Chemical substance group	Chemical name	CAS No.
2	Mercury and its compounds	Mercury	7439-97-6
		mercury dichloride	7487-94-7
		Mercury(II) oxide	21908-53-2
		mercury sulphate	7783-35-9
		mercury dinitrate	10045-94-0
		mercury sulphide, natural	1344-48-5
		Other mercury compounds	SN0024
3	Cadmium and its compounds	Cadmium	7440-43-9
		Cadmium oxide	1306-19-0
		Cadmium sulphide	1306-23-6
		Cadmium chloride	10108-64-2
		Cadmium sulfate	10124-36-4
		Cadmium sulfate	31119-53-6
		Cadmium fluoride	7790-79-6
		Cadmium carbonate	513-78-0
		Cadmium hydroxide	21041-95-2
		Cadmium nitrate	10022-68-1 10325-94-7
		Other cadmium compounds	SN0016
4	Hexavalent chromium compounds	Sodium dichromate	10588-01-9
		Disodium dichromate dihydrate	7789-12-0
		Chromium(VI) oxide	1333-82-0
		Calcium chromate	13765-19-0
		Lead(II) chromate	7758-97-6
		Potassium dichromate	7778-50-9
		Potassium chromate	7789-00-6
		barium chromate	10294-40-3
		Sodium chromate	7775-11-3
		Strontium chromate	7789-06-2
		zinc chromate	13530-65-9
		Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
		Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
		Ammonium dichromate	7789-09-5
		Chromic acid	7738-94-5
		Dichromic acid	13530-68-2
		Pentazinc chromate octahydroxide	49663-84-5
		Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
		Dichromium tris(chromate)	24613-89-6
		Oligomers of chromic acid and dichromic acid	SN0071
Other hexavalent chromium compounds	SN0019		
5	Polybrominated biphenyls (PBB)	Polybrobiphenyls	2052-07-5 2113-57-7 92-66-0 59536-65-1
		decabromo-1,1'-biphenyl	13654-09-6

No.	Chemical substance group	Chemical name	CAS No.
5	Polybrominated biphenyls (PBB)	Octabromobiphenyl	61288-13-9
		Hexabromobiphenyl	59080-40-9 36355-01-8 67774-32-7
		Tetrabromobiphenyl	40088-45-7
		Dibromobiphenyl	92-86-4
		Other polybrominated biphenyls (PBB)	SN0065
6	Polybrominated diphenyl ethers (PBDE)	Hexabromodiphenylether	36483-60-0
		Octabromodiphenylether	32536-52-0
		Decabromodiphenylether	1163-19-5
		Pentabromodiphenylether	32534-81-9
		Tetrabromodiphenylether	40088-47-9
		Heptabromodiphenylether	68928-80-3
		Nonabromodiphenylether	63936-56-1
		diphenyl ether, tribromo derivative	49690-94-0
		Dibromodiphenyl ether	2050-47-7
		Polybrominated diphenyl ether	101-55-3
Other polybrominated diphenyl ethers (PBDE)	SN0066		
7	Bis(2-ethylhexyl) phthalate (DEHP)	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
8	Butyl benzyl phthalate (BBP)	Butyl benzyl phthalate (BBP)	85-68-7
9	Dibutyl phthalate (DBP)	Dibutyl phthalate (DBP)	84-74-2
10	Diisobutyl phthalate (DIBP)	Diisobutyl phthalate (DIBP)	84-69-5
11	Polychlorinated biphenyls (PCBs) and specific substitutes	Polychlorinated biphenyls (PCBs)	1336-36-3
		Aroclor	12767-79-2
		Chlorodiphenyl (Aroclor 1260)	11096-82-5
		Kanechlor 500	27323-18-8
		Aroclor 1254	11097-69-1
		Monomethyl dichlorodiphenylmethane	81161-70-8
		Bromobenzyl bromotoluene	99688-47-8
		Dichloro((dichlorophenyl)methyl)methylbenzene	76253-60-6
		Other Polychlorinated biphenyls (PCBs)	-
12	Polychlorinated terphenyls (PCTs)	Polychlorinated terphenyls (PCTs)	61788-33-8
		Other polychlorinated terphenyls (PCTs)	-
13	Asbestos	Asbestos	1332-21-4
		Actinolite	77536-66-4
		Amosite	12172-73-5
		Anthophyllite	77536-67-5
		Chrysotile	12001-29-5
		Crocidolite	12001-28-4

No.	Chemical substance group	Chemical name	CAS No.
13	Asbestos	Tremolite	77536-68-6
		Other Asbestos	SN0056 SN0057
14	Specific organic tin compounds (TBTO, Tri-substituted organostannic compounds)	Bis(tri-n-butyltin) oxide (TBTO)	56-35-9
		Triphenyltin N,N'-dimethyldithiocarbamate	1803-12-9
		Triphenyltin fluoride	379-52-2
		Triphenyltin acetate	900-95-8
		Triphenyltin chloride	639-58-7
		Triphenyltin hydroxide	76-87-9
		Triphenyltin fatty acid salts(C=9-11)	47672-31-1 18380-71-7 18380-72-8 94850-90-5
		Triphenyltin chloroacetate	7094-94-2
		Triphenyltin methacrylate	2155-70-6
		Bis(tributyltin) fumarate	6454-35-9
		Tributyltin fluoride	1983-10-4
		Bis(tributyltin) 2,3-dibromosuccinate	31732-71-5
		Tributyltin acetate	56-36-0
		Tributyltin laurate	3090-36-6
		Tributyltin phthalate	4782-29-0
		Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate(alkyl; C=8)	67772-01-4
		Tributyltin sulfamate	6517-25-5
		Tributyltin chloride	1461-22-9 7342-38-3
		Mixture of tributyltin cyclopentanecarboxylate and its analogs(Tributyltin naphthenate)	85409-17-2
		Mixture of tributyltin 1,2,3,4a,4b,5,6,10,10a-decahydro-7-isopropyl1,4a-dimethyl-1-phenanthrenecarboxylate and its analogs(Tributyltin rosin salt)	26239-64-5
		Tri-n-butyltinbromode	1461-23-0
		tripheny tin	1262-21-1
		Tri-n-butyltin methanolate	1067-52-3
		Tributyltin hydroxide	1067-97-6
		Tri-n-butyltin methanesulfonate	13302-06-2
		(acryloyloxy)tributylstannane	13331-52-7
		Bis(tributyltin) maleate	14275-57-1
Tributyltin dimethyldithiocarbamate	20369-63-5		
Tributyltin cyanide	2179-92-2		
Tributyltin linoleate	24124-25-2		
Bis(tributyltin) itaconate	25711-26-6		
Tributyltin cinnamate	27147-18-8		
Tripropyltin bromide	2767-61-5		

No.	Chemical substance group	Chemical name	CAS No.
14	Specific organic tin compounds (TBTO, Tri-substituted organostannic compounds)	Tributyl(oleoyloxy)stannane	3090-35-5
		Tributyltin gammachlorobutyrate	33550-22-0
		Tributyl(4-nitrophenoxy)stannane	3644-32-4
		([1,1'-Biphenyl]-2-yloxy)tributylstannane	3644-37-9
		Tributyltin naphthenate	36631-23-9
		Tributyltin nonanoate	4027-14-9
		Cyanatotributylstannane	4027-17-2
		4-oxo-4-[(tributylstannyl)oxy]but-2-enoic acid	4027-18-3
		Tributylstannyl 2-hydroxybenzoate	4342-30-7
		Tributyltin benzoate	4342-36-3
		Tributyltin 2-ethylhexanoate	5035-67-6
		Tributyltin isopropylsuccinate	53404-82-3
		Tributyltin monopropylene glycol maleate	53466-85-6
		Tributyltin chloroacetate	5847-52-9
		Tributyltin	56573-85-4
		Tri-n-butylisocyanatotin	681-99-2
		Tri-n-butyltin hydride	688-73-3
		Tributyl(undecoxy)stannane	69226-47-7
		Tributyltin iodide	7342-47-4
		Tributyltin iodoacetate	73927-91-0
		o-Iodobenzoic acid tributylstannyl ester	73927-93-2
		Tributyltin .beta.-iodopropionate	73927-95-4
		Tributyltin isooctylthioacetate	73927-97-6
		Benzoic acid, p-iodo-, tributylstannyl ester	73940-88-2
		Stannane, tributyl(2-(2,4,5-trichlorophenoxy)-2-propionyloxy)-	73940-89-3
		1,3,5-Tris(tributylstannyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	752-58-9
		Triphenyltin hydride	892-20-6
		Triphenyliodotin	894-09-7
		[(1-Oxododecyl)oxy]triphenylstannane	3644-29-9
		Tributyl(pentachlorophenoxy)stannane	3644-38-0
		[(terephthaloylbis(oxy))]bis(tributylstannane)	4756-53-0
		Tributyl(formyloxy)stannane	5847-51-8
		Stannylium, triphenyl-	668-34-8
		Benzoic acid triphenyltin	910-06-5
		Bromotrimethylstannane	1066-44-0
		Trimethyltin chloride	1066-45-1
		Trimethyltin azide	1118-03-2
		Trimethyltin acetate	1118-14-5
		Stannane,triethylphenoxy-	1529-30-2
		Triethyltin acetate	1907-13-7
Tri-n-propylchlorotin	2279-76-7		
Triethyliodotin(IV)	2943-86-4		
Tri-n-propyltin acetate	3267-78-5		

No.	Chemical substance group	Chemical name	CAS No.
14	Specific organic tin compounds (TBTO, Tri-substituted organostannic compounds)	Tripropyltin methacrylate	4154-35-2
		Trimethyltin thiocyanate	4638-25-9
		Trimethyltin hydroxide	56-24-6
		Tripropyltin laurate	57808-37-4
		Trimethyltinsulphate	63869-87-4
		Tripropyltin iodide	7342-45-2
		Stannane, (iodoacetoxy)tripropyl-	73927-92-1
		Trimethyliodostannane	811-73-4
		Triethyltin chloride	994-31-0
		Triethyltin hydroxide	994-32-1
		Other tri-substituted organostannic compounds	SN0068
		15	Dibutyltin (DBT) compounds
Dibutyl tin	1002-53-5		
Dibutyltin dimaleate	10192-92-4		
Dibutyltin diacetate	1067-33-0		
Dibutyltin dilauryl mercaptide	1185-81-5		
Ethyl (Z,Z)-9,9-dibutyl-4,7,11-trioxo-3,8,10-trioxa-9stannatetradeca-5,12-dien-14-oate	13173-04-1		
Dibutylbis(octadec-9(Z)-enoxyloxy)stannane	13323-62-1		
Dibutylbis(palmitoyloxy)stannane	13323-63-2		
Dibutylbis[(2-hydroxybenzoyl)oxy]stannane	14214-24-5		
Methyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-2,7,9-trioxa-8-stannatrideca-4,11-dien-13-oate	15546-11-9		
2-ethylhexyl 6,6-dibutyl-14-ethyl-4,8,11-trioxo-5,7,12-trioxa-6-stannaoctadeca-2,9-dienoate	15546-12-0		
Butyl (Z,Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxa-6-stannahexadeca-2,9-dienoate	15546-16-4		
Tin, dibutyl(1,2-ethanediamine-.kappa.N1,.kappa.N2)bis(1-isoctyl 2-butenedioato-.kappa.O4)-	163206-28-8		
Bis(acetato)dibutyltin	17523-06-7		
Dibutylbis[(1-oxohexyl)oxy]stannane	19704-60-0		
Isopropyl (Z,Z)-9,9-dibutyl-2-methyl-4,7,11-trioxo-3,8,10-trioxa-9-stannatetradeca-5,12-dien-14-oate	22535-42-8		
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4		
Tin, dibutyl-bis-isoctylmercaptoacetate	25168-24-5		
Diisoctyl 3,3'-[(dibutylstannylene)bis(thio)]-dipropionate	26761-46-6		
Octyl 4,4-dibutyl-7-oxo-8-oxa-3,5-dithia-4-stannahexadecanoate	2781-09-1		
Dibutyltin bis(2-ethylhexanoate)	2781-10-4		
(Z)-octadec-9-enyl (all-Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxa-6-stannatriaconta-2,9,21-trienoate	29881-72-9		
Acetate, S,S'-bisoctylmercapto-, dibutyltin	32011-18-0		
Dibutylbis(methyl 3-mercaptopropionato-O,S)tin	32011-19-1		
Dodecyl (Z,Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxa-6-stannatetracos-2,9-dienoate	33466-31-8		

No.	Chemical substance group	Chemical name	CAS No.
15	Dibutyltin (DBT) compounds	Dibutoxydibutylstannane	3349-36-8
		Dibutylbis(octanoyloxy)stannane	4731-77-5
		Dodecyl 5,5-dibutyl-9-oxo-10-oxa-4,6-dithia-5-stannadocosanoate	51287-83-3
		2-ethylhexyl 5,5-dibutyl-12-ethyl-9-oxo-10-oxa-4,6-dithia-5-stannahexadecanoate	53202-61-2
		Dibutylbis(ethyl 3-oxobutyrate-O1',O3)tin	54581-65-6
		Bis(benzoyloxy)dibutylstannane	5847-54-1
		Dibutylbis(stearoyloxy)stannane	5847-55-2
		Diisobutyltin oxide	61947-30-6
		Dibutylbis(triethylamine)difluorotin	67924-24-7
		Dibutyl[N-(carboxymethyl)-N-(2-hydroxyethyl)glycinato(2-)]tin	68239-46-3
		Stannane, dibutyldichloro- [SVHC]	683-18-1
		Benzyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-1-phenyl-2,7,9-trioxa-8-stannatrideca-4,11-dien-13-oate	7324-74-5
		Stannane, dibutylbis[(1-oxododecyl)oxy]-	77-58-7
		2,2-dibutyldihydro-6H-1,3,2-oxathia-stannin-6-one	78-06-8
		2,2-dibutyl-1,3,2-oxathia-stannolan-5-one	78-20-6
		Stannane, dibutyloxo-	818-08-6
		Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3
		Dibutylbis[(1-oxoisooctyl)oxy]stannane	85702-74-5
		Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2
		2-Butenoic acid, 4,4'-[(dibutylstannylene)-bis(oxy)]bis[4-oxo-, diisooctyl ester, (2Z,2'Z)-	25168-21-2
		8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 4,4-dibutyl-10-ethyl-7-oxo-, 2-ethylhexyl ester	10584-98-2
		Butanoic acid,1,1'-(dibutylstannylene) ester	28660-63-1
Dibutylbis[(1-oxoisooctadecyl)oxy]stannane	59963-28-9		
Other dibutyltin (DBT) compounds	SN0072		
16	Dimethyl fumarate (DMF)	Dimethyl fumarate (DMF)	624-49-7
17	Short chain chlorinated paraffins (C10-C13)	Short-chain Chlorinated paraffin (C10-C13)	85535-84-8
		Chlorinated Paraffins (C12, 60% Chlorine)	108171-26-2
		Paraffin waxes and Hydrocarbon waxes, chloro	63449-39-8
		Chlorinated paraffin (C12-13)	71011-12-6
		Alkanes, chloro (C10-13)	61788-76-9
		Other short chain chlorinated paraffins (C10-C13)	-
18	Polychlorinated naphthalenes (more than 1 chlorine atoms)	Polychlorinated Naphthalenes	70776-03-3
		Trichloronaphthalene	1321-65-9
		Tetrachloronaphthalene	1335-88-2
		Pentachloronaphthalene	1321-64-8
		Octachloronaphthalene	2234-13-1
		1-Chloronaphthalene	90-13-1

No.	Chemical substance group	Chemical name	CAS No.
18	Polychlorinated naphthalenes (more than 1 chlorine atoms)	2-Chloronaphthalene	91-58-7
		1,5-Dichloronaphthalene	1825-30-5
		1,4-Dichloronaphthalene	1825-31-6
		1,2-Dichloronaphthalene	2050-69-3
		1,6-Dichloronaphthalene	2050-72-8
		1,7-Dichloronaphthalene	2050-73-9
		1,8-Dichloronaphthalene	2050-74-0
		2,3-Dichloronaphthalene	2050-75-1
		2,6-Dichloronaphthalene	2065-70-5
		1,3-Dichloronaphthalene	2198-75-6
		2,7-Dichloronaphthalene	2198-77-8
		Dichloronaphthalene	28699-88-9
		Monochloronaphthalene	25586-43-0
		Other polychlorinated Naphthalenes	-
19	Perfluorooctane sulfonic acid and its salts (PFOS)	1-Octanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	307-35-7
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	376-14-7
		2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	383-07-3
		2-Propenoic acid, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	423-82-5
		1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-	423-86-9
		1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	754-91-6
		1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-, iodide	1652-63-7
		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)-	1691-99-2
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	1763-23-1
		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, ethyl ester	1869-77-8
		1-Octanesulfonamide, N,N',N''-[phosphinylidynetris(oxy-2,1ethanediyl)]tris[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	2250-98-8
		1-Octanesulfonamide, N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-	2263-09-4
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt	2795-39-3
		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-	2991-50-6
		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7



No.	Chemical substance group	Chemical name	CAS No.
19	Perfluorooctane sulfonic acid and its salts (PFOS)	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-	3820-83-5
		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, sodium salt	3871-50-9
		1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	4151-50-2
		1-Octanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	13417-01-1
		2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester	14650-24-9
		1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-	24448-09-7
		1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-	24924-36-5
		2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester	25268-77-3
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt	29081-56-9
		Poly(oxy-1,2-ethanediyl), .alpha.-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-.omega.-hydroxy-	29117-08-6
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt	29457-72-5
		1-Octanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	30295-51-3
		1-Octanesulfonamide, N,N'-[phosphinicobis(oxy-2,1ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt	30381-98-7
		1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-	31506-32-8
		1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-, chloride	38006-74-5
		1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(phenylmethyl)-	50598-29-3
		Poly(oxy-1,2-ethanediyl), .alpha.-[2-[[[(heptadecafluorooctyl)sulfonyl]propylamino]ethyl]-.omega.hydroxy-	52550-45-5
		Ethanaminium, N,N,N-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1)	56773-42-3
		Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(heptadecafluorooctyl)sulfonyl]oxy]phenyl]amino]carbonyl]-, monopotassium salt	57589-85-2
		2-Propenoic acid, 4-[[[(heptadecafluorooctyl)sulfonyl]methylamino]butyl ester	58920-31-3
2-Propenoic acid, 2-methyl-, 4-[[[(heptadecafluorooctyl)sulfonyl]methylamino]butyl ester	61577-14-8		

No.	Chemical substance group	Chemical name	CAS No.
19	Perfluorooctane sulfonic acid and its salts (PFOS)	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]-	61660-12-6
		1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trichlorosilyl)propyl]-	67939-42-8
		1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-, diammonium salt	67969-69-1
		1-Octanesulfonamide, N-[3-(dimethylamino)propyl]1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, monohydrochloride	67939-88-2
		Carbamic acid, (4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl] ester	68081-83-4
		1-Propanaminium, 3-[[heptadecafluorooctyl)sulfonyl](3-sulfopropyl)amino]-N-(2-hydroxyethyl)-N,N-dimethyl-, inner salt	68298-11-3
		2-Propenoic acid, eicosyl ester, polymer with 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and octadecyl 2-propenoate	68329-56-6
		1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(4-hydroxybutyl)-N-methyl-	68239-73-6
		1-Propanaminium, 3-[[heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-, iodide, ammonium salt	68310-75-8
		2-Propenoic acid, polymer with 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-propenoate	68541-80-0
		2-Propenoic acid, butyl ester, polymer with 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 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	68555-90-8

No.	Chemical substance group	Chemical name	CAS No.
19	Perfluorooctane sulfonic acid and its salts (PFOS)	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate	68555-91-9
		2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate	68555-92-0
		Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]	68608-14-0
		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-butanesulfonamide, 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
		2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and.alpha.-(1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl)	68867-60-7
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and 2-methyl-1,3-butadiene	68877-32-7
		Chromium, diaquatetrachloro[.mu.-[N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]glycinato-.kappa.O:.kappa.O']]-.mu.-hydroxybis(2-methyl-1-propanol)di-	68891-96-3

No.	Chemical substance group	Chemical name	CAS No.
19	Perfluorooctane sulfonic acid and its salts (PFOS)	2-Propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2-[[heptadecafluorooctyl)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]amino]ethyl acrylate, polyethylene glycol acrylate Me ether and stearyl acrylate	68909-15-9
		Poly(oxy-1,2-ethanediyl), .alpha.-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-.omega.-methoxy-	68958-61-2
		1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-14-8
		2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[heptadecafluorooctyl)sulfonyl)methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamido, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 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	70776-36-2
		Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]propyl]-	71463-78-0
		Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]propyl]-, diethyl ester	71463-80-4
		2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[[heptadecafluorooctyl)sulfonyl)methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-propenoic acid	71487-20-2
		Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)	91081-99-1
		Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-ethoxyethyl 2-propenoate, 2-[[heptadecafluorooctyl)sulfonyl)methylamino]ethyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate	92265-81-1
		1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl][(heptadecafluorooctyl)sulfonyl]amino]-2-hydroxy-, monosodium salt	94133-90-1

No.	Chemical substance group	Chemical name	CAS No.
19	Perfluorooctane sulfonic acid and its salts (PFOS)	Carbamic acid, [5-[[[2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethoxy]carbonyl]amino]-2-methylphenyl]-, 9-octadecenyl ester, (Z)-	94313-84-5
		Sulfonamides, C7-8-alkane, perfluoro, N-methyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride	98999-57-6
		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
		Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-(oxiranylmethyl)	129813-71-4
		Fatty acids, C18-unsatd., trimers, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl esters	148240-78-2
		Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol	148684-79-1
		Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate	160901-25-7
		1-Octanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt	178094-69-4
		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
		1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-, reaction products with benzene-chlorine-sulfur chloride (S <sub>2</sub> Cl <sub>2</sub> ) reaction products chlorides	182700-90-9
		2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and 2-propenoic acid	-
		Polymethylenepolyphenylene isocyanate and bis(4-NCO-phenyl)methane reaction products with 2-ethyl-1-hexanol, 2-butanone, oxime, N-ethyl-N-(2-hydroxyethyl)-1-C4-C8 perfluoroalkanesulfonamide	-
		Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid	192662-29-6
1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1)	251099-16-8		
Fatty acids, linseed-oil, dimers, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl esters	306973-46-6		

No.	Chemical substance group	Chemical name	CAS No.
19	Perfluorooctane sulfonic acid and its salts (PFOS)	Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxyoctadecanoic acid and 2,4-TDI, ammonium salts	306973-47-7
		Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl]	306974-19-6
		Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl group]-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearyl methacrylate	306974-28-7
		Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether	306974-45-8
		Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters	306974-63-0
		Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N', 2-tris(6-isocyanatohexyl)imidodicarbonic diamide, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with triethylamine	306975-56-4
		Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] and 1,2,3-propanetriol, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with morpholine	306975-57-5
		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
		Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides-blocked	306975-84-8
		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
1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-propenyl)oxy]ethyl]-, bromide, polymers with Bu acrylate, Bu methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	306976-25-0		
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		

No.	Chemical substance group	Chemical name	CAS No.
19	Perfluorooctane sulfonic acid and its salts (PFOS)	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
		2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride	306978-04-1
		Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides- and stearyl alc.-blocked	306978-65-4
		Poly(oxy-1,2-ethanediyl), .alpha.-[2-(methylamino)ethyl]-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs.	306979-40-8
		Sulfonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediy]bis[(2-oxo-3,5-oxazolidinediy)methylene]]bis[N-methyl-	306980-27-8
		Other perfluorooctane sulfonic acid and its salts (PFOS)	SN0035
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	Pentadecafluorooctanoic acid (PFOA)	335-67-1
		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
		Sodium pentadecafluorooctanoate	335-95-5
		Potassium perfluorooctanoate	2395-00-8
		Silver(1+) perfluorooctanoate	335-93-3
		Pentadecafluorooctyl fluoride	335-66-0
		Methyl perfluorooctanoate	376-27-2
		Ethyl perfluorooctanoate	3108-24-5
		Perfluorooctylethyltriethoxysilane	101947-16-4
		Poly(oxy-1,2-ethanediyl), .alpha.--(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11,11-heptadecafluoro-2-hydroxyundecyl)-.omega.-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11,11-heptadecafluoro-2-hydroxyundecyl)oxy]-	122402-79-3
		1,3-Propanediol, 2,2-bis(.gamma.-.omega.-perfluoro-C4-10-alkyl)thiomethyl derivs., phosphates, ammonium salts	148240-85-1
		1,3-Propanediol, 2,2-bis(.gamma.-.omega.-perfluoro-C6-12-alkyl)thiomethyl derivs., phosphates, ammonium salts	148240-87-3
		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
		Trisiloxane, 3,3'-(3,3,4,4,5,5,6,6,7,7,8,8-dodecafluoro-1,10decanediy)bis[3-[(dimethylsilyl)oxy]-1,1,5,5-tetramethyl-, reaction products with 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11heptadecafluoro-1-undecene	185701-89-7
		8:2 Fluorotelomer methacrylate; 8:2 FTMAC	1996-88-9
2-(perfluorooctyl)ethyl iodide, 8-2 telomer iodide:	2043-53-0		

No.	Chemical substance group	Chemical name	CAS No.
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	Cyclotetrasiloxane, 2-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11heptadecafluoroundecyl)-2,4,6,8-tetramethyl-, Si-[3-(oxiranylmethoxy)propyl] derivs	206886-57-9
		8:2 Fluorotelomer olefin; 8:2 FTO	21652-58-4
		3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1oxooctyl)amino]benzenesulphonyl chloride;3,4Bis(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1oxooctylamino)benzenesulfonyl chloride	24216-05-5
		Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	27854-31-5
		Fluorotelomer acrylates; 8:2 Fluorotelomer acrylate; 8:2 FTAC	27905-45-9
		Polyfluorinated silanes; Perfluorodecyldichloromethylsilane; C8-PFSi	3102-79-2
		2-Propenoic acid, 2-methyl-, methyl ester, telomere with 1dodecanethiol, 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
		Tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10heptadecafluorodecyl)phenyl]phosphine	325459-92-5
		bis[tris(4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl)phosphine]palladium(ii) dichloride	326475-46-1
		Pentadecafluorooctanoic anhydride	33496-48-9
		2-carboxyethylbis(2-hydroxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8pentadecafluoro-1-oxooctyl)amino]propylammonium hydroxide	39186-68-0
		Per- and polyfluorinated phosphonic acids; Perfluorooctyl phosphonic acid; C8-PFPA	40143-78-0
		Bis(perfluorooctyl) phosphinic acid; C8/C8-PFPIA	40143-79-1
		N-[3-[bis(2-hydroxyethyl)amino]propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide	41358-63-8
		Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2propenyl)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
		C8 iodide: (Octane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8heptadecafluoro-8-iodo- )	507-63-1
		2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8pentadecafluorooctyl ester, polymer with 2-propenoic acid	53515-73-4
		1-Propanaminium,N,N,N-trimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8pentadecafluoro-1-oxooctyl)amino]-, chloride	53517-98-9
8:2 Fluorotelomer phosphate monoester; 8:2 monoPAP	57678-03-2		
Bis(perfluorooctyl) phosphinic acid; C6/C8-PFPIA	610800-34-5		



No.	Chemical substance group	Chemical name	CAS No.
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	Poly(difluoromethylene), alpha-fluoro-omega-[2- [[2-(trimethylammonio)ethyl]thio]ethyl]-, methyl sulfate	65530-57-6
		Poly(difluoromethylene), .alpha.-fluoro-.omega.-2-(phosphonoxy)ethyl-	65530-61-2
		Poly(difluoromethylene), .alpha.,.alpha.-phosphinicobis(oxy-2,1ethanediyl)bis.omega.-fluoro-	65530-62-3
		8-2 telomer alcohol:	678-39-7
		Polyfluoroalkyl phosphoric acid diesters; 8:2 Fluorotelomer phosphate diester; 8:2 diPAP	678-41-1
		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+)	68141-02-6
		Fatty acids, C7-13, perfluoro	68333-92-6
		Fatty acids, C7-13, perfluoro, compds. with ethylamine	69278-80-4
		2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-	70887-84-2
		Pentanoic acid, 4,4-bis(.gamma.-.omega.-perfluoro-C8-20-alkyl)thio derivs., compds. with diethanolamine;4,4-Bis[(gamma-omegaperfluoro-alkyl(C=8-20))thio]pentanoic acid derivs. compds. with diethanolamine	71608-61-2
		Fatty acids, C6-18, perfluoro, ammonium salts	72623-77-9
		Carboxylic acids, C7-13, perfluoro, ammonium salts	72968-38-8
		Perfluorodecyldimethylchlorosilane	74612-30-9
		Perfluorodecyltrichlorosilane	78560-44-8
		Poly(difluoromethylene), .alpha.-fluoro-.omega.-(2-sulfoethyl)-	80010-37-3
		Heptadecafluoro-1,1,2,2-tetrahydrodecyl) trimethoxysilane	83048-65-1
		heptadecafluoro-1-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8pentadecafluorooctyl)oxy]nonene	84029-60-7
		N-(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8pentadecafluorooctanamide;Einecs 288-891-4	85938-56-3
		1-Propanesulfonic acid, 3-[ethyl(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8pentadecafluoro-1-oxooctyl)amino] -, sodium salt	89685-61-0
		Octanoic acid, pentadecafluoro-, mixed esters with 2,2'-[1,4butanediylbis(oxymethylene)]bis[oxirane] and 2,2'-[1,6hexanediylbis(oxymethylene)]bis[oxirane]	90480-57-2
		Amides, C7-19, alpha-omega-perfluoro-N,N-bis(hydroxyethyl)	90622-99-4
		Fatty acids, C7-19, perfluoro	91032-01-8
		Poly(oxy-1,2-ethanediyl),a-[2-[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8pentadecafluoro-1-oxooctyl)amino]ethyl]-w-hydroxy	93480-00-3
8:2 Fluorotelomer phosphate monoester ammonium salt	93857-44-4		
Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11heptadecafluoro-2-hydroxyundecyl phosphate	94200-45-0		
Carbamic acid, [2-(sulfothio)ethyl]-, C-(gamma-omega-perfluoro-C6-9-alkyl) esters, monosodium salts	95370-51-7		

No.	Chemical substance group	Chemical name	CAS No.
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	Ethanaminium, N,N,N-triethyl-, salt with pentadecafluorooctanoic acid (1:1)	98241-25-9
		Other Perfluorooctanoic acid (PFOA) and its salts and esters	SN0036
		Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-	1144512-18-4
		Hexanoic acid, 2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-	1144512-34-4
		Hexanoic acid, 2,2,3,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-	1144512-35-5
		Hexanoic acid, 2,2,3,3,4,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-	1144512-36-6
		Hexanoic acid, 2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-	1192593-79-5
		Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2pentafluoroethyl)-, sodium salt (1:1)	1195164-59-0
		Isooctanoic acid, pentadecafluoro-	123116-17-6
		Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10heptadecafluoro-1-decanol	125476-71-3
		Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2pentafluoroethyl)-, ammonium salt(1:1)	13058-06-5
		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-	15166-06-0
		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt(3:1)	15715-47-6
		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt(1:x)	15739-82-9
		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
		2-Propenoic acid,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl ester	16083-87-7
		Poly[[1,3-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10heptadecafluorodecyl)-1,3:1,3-disiloxanediylidene]-1,3-	161045-59-6
		1,5-Trisiloxanediol, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10heptadecafluorodecyl)-1,1,3,5,5-pentamethyl- (9CI)	3-165320-75-2
		2-(Perfluorodecyl) ethyl acrylate, 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafuorododecyl ester	17741-60-5
		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt(1:1)	18017-22-6
Hexanoic acid, 3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-	1812247-17-8		
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-	1812247-19-0		

No.	Chemical substance group	Chemical name	CAS No.
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	Hexanoic acid, 2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluoromethyl)-	1812247-20-3
		Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2pentafluoroethyl)-	1882109-58-1
		Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-	1882109-59-2
		Butanoic acid, 2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1bis(trifluoromethyl)ethyl]-	1882109-60-5
		Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-	1882109-61-6
		Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-	1882109-62-7
		Pentanoic acid, 3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2pentafluoroethyl)-2-(trifluoromethyl)-	1882109-63-8
		Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2pentafluoroethyl)-3-(trifluoromethyl)-	1882109-64-9
		Pentanoic acid, 2,3,3,4,5,5,5-heptafluoro-2-(1,1,2,2,2pentafluoroethyl)-4-(trifluoromethyl)-	1882109-65-0
		Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2pentafluoroethyl)-2-(trifluoromethyl)-	1882109-66-1
		Pentanoic acid, 2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2pentafluoroethyl)-3-(trifluoromethyl)-	1882109-67-2
		Pentanoic acid, 2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2pentafluoroethyl)-4-(trifluoromethyl)-	1882109-68-3
		Pentanoic acid, 3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-	1882109-69-4
		Pentanoic acid, 3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-	1882109-70-7
		Pentanoic acid, 2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-	1882109-71-8
		Pentanoic acid, 2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-	1882109-72-9
		Pentanoic acid, 2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-	1882109-73-0
		Pentanoic acid, 2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-	1882109-74-1
		Pentanoic acid, 2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-	1882109-75-2
		Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-	1882109-76-3
		Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3heptafluoropropyl)-	1882109-77-4
		Hexanoic acid, 2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2pentafluoroethyl)-	1882109-78-5
		Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2pentafluoroethyl)-	1882109-79-6
Hexanoic acid, 2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-	1882109-80-9		
Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-	1882109-81-0		

No.	Chemical substance group	Chemical name	CAS No.
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammoniums salt (1:1)	19742-57-5
		C10-2 telomer B iodide;; Dodecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10heneicosaf luoro-12-iodo-	2043-54-1
		Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-	207678-51-1
		2-(Perfluorodecyl) ethyl methacrylate, 2- Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosaf luor ododecyl ester	2144-54-9
		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt(1:1)	29457-73-6
		Tetradecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,1 2,12pentacosaf luoro-14-iodo-	30046-31-2
		1- Dodecene,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12hene icosaf luoro-	30389-25-4
		Decane, 1-bromo- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10heneicosaf luoro-	307-43-7
		Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11tricosaf luoro- 11-iodo-	307-50-6
		Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12pentaco saf luoro-12-iodo-	307-60-8
		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, 14,14nonacosaf luoro-14-iodo-	307-63-1
		Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12tetracosaf luoro-12-iodo-2-(trifluoromethyl)-	3248-61-1
		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 ,14octacosaf luoro-14-iodo-2-(trifluoromethyl)-	3248-63-3
		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
		Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2pentafluoroethyl)-	35605-76-6
		Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13h eptacosaf luoro-13-iodo-	376-04-5
		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-pentacosaf luoro-	39239-77-5
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosaf luoro- 10-iodo-	423-62-1		
Perfluorooctanoate (conjugate base of the free acid)	45285-51-6		

No.	Chemical substance group	Chemical name	CAS No.
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	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-nonacosafluorohexadecylester	4980-53-4
		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,tetracosafluoro-13-(trifluoromethyl)tetradecyl ester	52956-82-8
		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
		2-Propenoic acid, 2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14p,entacosafluorotetradecyl ester	6014-75-1
		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-nonacosafluoro-	60699-51-6
		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
		Hexadecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11,12,12,13,13,14,14,14-nonacosafluoro-16-iodo-	65510-55-6
		Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11iodo-	65510-56-7
		Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafluoro-10iodo-2-(trifluoromethyl)-	677-93-0
		Alkyl iodides, C4-20, gamma-omega-perfluoro	68188-12-5
		Alkyl iodides, C10-12, gamma-omega-perfluoro	68390-33-0
		Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-	705240-04-6
		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-eicosafluoro-11-(trifluoromethyl)dodecyl ester	74256-14-7
		2-Propenoic acid, 2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14tetraacosafluoro-13-(trifluoromethyl)tetradecyl ester	74256-15-8
		2-Propenoic acid, gamma-omega-perfluoro-C8-14-alkyl esters	85631-54-5
		Perfluoro compounds, C5-18	86508-42-1
		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-heneicosafluoro-)	865-86-1
		Branched perfluorooctanoic acid	90480-55-0
		Ammonium salt, linear/branched PFOA (Octanoic acid, pentadecafluoro-, branched, ammonium salt)	90480-56-1
		Alkyl iodides, C6-18, perfluoro	90622-71-2
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-	909009-42-3		
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-octacosafluoro-15-(trifluoromethyl)hexadecyl ester	91615-22-4		

No.	Chemical substance group	Chemical name	CAS No.
20	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	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
		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
		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)octadecylester	94158-65-3
		PFOA salts	SN0102
		PFOA-related polymer	SN0103
21	2-benzotriazol-2-yl-4,6di-tert-butylphenol	2-benzotriazol-2-yl-4,6-di-tert-butylphenol	3846-71-7
22	Hexabromocyclododecane (HBCDD)	Hexabromocyclododecane	25637-99-4
		1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6
		alpha-hexabromocyclododecane	134237-50-6
		beta-hexabromocyclododecane	134237-51-7
		gamma-hexabromocyclododecane	134237-52-8
		rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	4736-49-6
		rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	65701-47-5
		(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-17-7
		(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-18-8
		(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-19-9
		(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	169102-57-2
		(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-15-5
		(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-16-6
		(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	678970-17-7
		Other Hexabromocyclododecane	-
		CFC-11	75-69-4
		CFC-12	75-71-8
		CFC-113	354-58-5 76-13-1
		CFC-114	1320-37-2 76-14-2
		CFC-114a	374-07-2
		CFC-115	76-15-3
		Halon 1211	353-59-3
Halon 1301	75-63-8		
Halon 2402	124-73-2		
Other Halons	-		

No.	Chemical substance group	Chemical name	CAS No.
22	Hexabromocyclododecane(HBCDD)	CFC-13	75-72-9
		CFC-111	354-56-3
23	Ozone Depleting Substances	CFC-112	76-12-0 76-11-9
		CFC-211	422-78-6 135401-87-5
		CFC-212	3182-26-1
		CFC-213	2354-06-5 134237-31-3
		CFC-214	29255-31-0 2268-46-4
		CFC-215	1599-41-3 4259-43-2 1652-81-9
		CFC-216	661-97-2
		CFC-217	422-86-6
		Other Chloro-fluoro-carbons (CFC)	SN0058
		Carbon tetrachloride	56-23-5
		1,1,1-Trichloroethane	71-55-6
		HCFC-21	75-43-4
		HCFC-22	75-45-6
		HCFC-31	593-70-4
		HCFC-121	134237-32-4 354-11-0 354-14-3
		HCFC-122	41834-16-6 354-21-2
		HCFC-123	34077-87-7
		HCFC-123	90454-18-5
		HCFC-123	306-83-2
		HCFC-123a	354-23-4
		HCFC-123b	812-04-4
		HCFC-124	63938-10-3
		HCFC-124	2837-89-0
		HCFC-124a	354-25-6
		HCFC-131	27154-33-2 (134237-34-6) 359-28-4 811-95-0
		HCFC-132	25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1

No.	Chemical substance group	Chemical name	CAS No.
23	Ozone Depleting Substances	HCFC-133	1330-45-6 75-88-7
		HCFC-141	1717-00-6 (25167-88-8) 430-57-9
		HCFC-141b	1717-00-6
		HCFC-142	25497-29-4
		HCFC-142b	75-68-3
		HCFC-142a	25497-29-4
		HCFC-151	1615-75-4
		HCFC-221	134237-35-7
		HCFC-222	134237-36-8
		HCFC-223	134237-37-9
		HCFC-224	134237-38-0
		HCFC-225	127564-92-5 (2713-09-9)
		HCFC-225aa	128903-21-9
		HCFC-225ba	422-48-0
		HCFC-225bb	422-44-6
		HCFC-225ca	422-56-0
		HCFC-225cb	507-55-1
		HCFC-225cc	13474-88-9
		HCFC-225da	431-86-7
		HCFC-225ea	136013-79-1
		HCFC-225eb	111512-56-2
		HCFC-226	134308-72-8
		HCFC-231	134190-48-0
		HCFC-232	134237-39-1
		HCFC-233	134237-40-4 7125-83-9
		HCFC-234	127564-83-4
		HCFC-235	134237-41-5 460-92-4
		HCFC-241	134190-49-1
		HCFC-242	134237-42-6
		HCFC-243	134237-43-7 7125-99-7 338-75-0 460-69-5
HCFC-244	134190-50-4 679-85-6		
HCFC-251	134190-51-5 818-99-5		
HCFC-252	134190-52-6		



No.	Chemical substance group	Chemical name	CAS No.
23	Ozone Depleting Substances	HCFC-253	134237-44-8 460-35-5
		HCFC-261	134237-45-9 7799-56-6
		HCFC-262	134190-53-7 102738-79-4
		HCFC-271	134190-54-8 420-44-0
		Other hydrochlorofluorocarbons (HCFC's)	SN0061
		Dibromofluoromethane	1868-53-7
		Bromodifluoromethane	1511-62-2
		Bromofluoromethane	373-52-4
		Tetrabromofluoroethane	306-80-9
		Tribromodifluoroethane	7304-53-2
		Dibromotrifluoroethane	354-04-1
		Bromotetrafluoroethane	124-72-1
		Tribromofluoroethane	420-88-2
		Dibromodifluoroethane	75-82-1
		Bromotrifluoroethane	421-06-7
		Dibromofluoroethane	358-97-4
		Bromodifluoroethane	359-07-9
		Bromofluoroethane	762-49-2
		Hexabromofluoropropane	-
		Pentabromodifluoropropane	-
		Tetrabromotrifluoropropane	-
		Tribromotetrafluoropropane	666-48-8
		Dibromopentafluoropropane	431-78-7
		Bromohexafluoropropane	2252-79-1
		Pentabromofluoropropane	-
		Tetrabromodifluoropropane	148875-98-3
		Tribromotrifluoropropane	421-90-9
		Dibromotetrafluoropropane	460-86-6
		Bromopentafluoropropane	460-88-8
		Tetrabromofluoropropane	148875-95-0
		Tribromodifluoropropane	70192-80-2
		Dibromotrifluoropropane	70192-83-5
		Bromotetrafluoropropane	679-84-5
		Tribromofluoropropane	75372-14-4
Dibromodifluoropropane	460-25-3		
Bromotrifluoropropane	421-46-5		
Dibromofluoropropane	51584-26-0		
Bromodifluoropropane	111483-20-6		
Bromofluoropropane	352-91-0		

No.	Chemical substance group	Chemical name	CAS No.
23	Ozone Depleting Substances	Other hydrobromofluorocarbons (HBFC's)	SN0060
		Chlorobromomethane	74-97-5
		Methyl bromide	74-83-9
24	Arsenic compounds	Gallium arsenide	1303-00-0
		Calcium arsenate	7778-44-1
		calcium arsenate	27152-57-4
		Arsenic pentoxide	1303-28-2
		Arsenic trioxide	1327-53-3
		Potassium arsonate	10124-50-2
		Potassium arsonate	7784-41-0
		Trilead diarsenate	3687-31-8
		Lead hydrogen arsenate	7784-40-9
		Triethyl arsenate	15606-95-8
		Arsenic acid	7778-39-4
		Other arsenic acid and its salts	SN0009
		Other arsenic compounds	SN0010
25	Cobalt chloride	Cobalt dichloride	7646-79-9
		Cobalt (II) chloride, hexahydrate	7791-13-1
		Cobalt chloride (CoCl <sub>3</sub> )	10241-04-0
		Cobalt chloride (CoCl)	34240-80-7
26	Phenol, Isopropylated	Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)	68937-41-7
27	2,4,6-tris(tertbutyl)phenol (2,4,6-TTBP)	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3
28	Pentachlorothiophenol	Pentachlorothiophenol (PCTP)	133-49-3
29	Hexachlorobutadiene	Hexachlorobutadiene (HCBD)	87-68-3
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C <sub>9</sub> C <sub>14</sub> PFCAs), their salts and C <sub>9</sub> -C <sub>14</sub> PFCA-related substances	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
		Docosafluoro-11-(trifluoromethyl)dodecanoic acid	16486-96-7
		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
		Hexacosafuoro-13-(trifluoromethyl)tetradecanoic acid	18024-09-4
		Henicosafuoroundecanoic acid	2058-94-8
		Sodium salts of Perfluorononan-1-oic acid	21049-39-8
		Tricosafuorododecanoic acid	307-55-1
		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11icosafuoroundecanoate	307-71-1
		Ammonium nonadecafluorodecanoate	3108-42-7
		Nonadecafluorodecanoic acid	335-76-2
		Ammonium octadecafluoro-9-(trifluoromethyl)decanoate	3658-63-7
	Perfluorononan-1-oic acid	375-95-1	

No.	Chemical substance group	Chemical name	CAS No.
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9C14 PFCAs), their salts and C9-C14 PFCA-related substances	Heptacosafuorotetradecanoic acid	376-06-7
		Ammonium tricosafuorododecanoate	3793-74-6
		Sodium nonadecafluorodecanoate	3830-45-3
		Ammonium salt of Perfluorononan-1-oic acid; Perfluorononan-1-oic acid, ammonium salt	4149-60-4
		2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafuoro-11-(trifluoromethyl)lauric acid, compound with ethylamine (1:1)	68015-87-2
		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
		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
		Phosphonic acid, perfluoro-C6-12-alkyl derivs.	68412-68-0
		Pentacosafuorotridecanoic acid	72629-94-8
		Bis(2hydroxyethyl)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
		Bis(2hydroxyethyl)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
		4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15,15-pentacosafuoro-2-hydroxypentadecyl dihydrogen phosphate	94200-42-7
		4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15,15,16,16,17,17,17-nonacosafuoro-2-hydroxyheptadecyl dihydrogen phosphate	94200-43-8
		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate	115592-83-1
		2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2hydroxyethyl methacrylate, Me methacrylate and perfluoro-C8-14alkyl acrylate	125328-29-2
		2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2hydroxyethyl methacrylate, Me methacrylate and gamma-omegaperfluoro-C8-14-alkyl acrylate	129783-45-5
		2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2propenyl)carbamate and gamma-omega-perfluoro-C8-14-alkyl acrylate	144031-01-6
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15te tricosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl ester	16083-87-7		
2-(Perfluorodecyl) ethyl acrylate; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12hencicosafuoro dodecyl acrylate	17741-60-5		

No.	Chemical substance group	Chemical name	CAS No.
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9C14 PFCAs), their salts and C9-C14 PFCA-related substances	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafuoro-, 1,1'-(hydrogen phosphate); Bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafuorododecyl] hydrogen phosphate	1895-26-7
		Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10heneicosafuoro-12-iodo-; C10-2 telomer B iodide	2043-54-1
		2-(Perfluorodecyl) ethyl methacrylate; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafuoro dodecyl methacrylate	2144-54-9
		Tetradecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12pentacosafuoro-14-iodo-; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12pentacosafuoro-14-iodotetradecane	30046-31-2
		Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11tricosafuoro-11-iodo-	307-50-6
		Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12pentacosafuoro-12-iodo-	307-60-8
		Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14nonacosafuoro-14-iodo-; Nonacosafuoro-1-iodotetradecane	307-63-1
		Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12tetracosafuoro-12-iodo-2-(trifluoromethyl)-; 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12tetracosafuoro-12-iodo-2-(trifluoromethyl)dodecane	3248-61-1
		Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14octacosafuoro-14-iodo-2-(trifluoromethyl)-; Octacosafuoro-14-iodo-2-(trifluoromethyl)tetradecane	3248-63-3
		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
		Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13heptacosafuoro-13-iodo-	376-04-5
		1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14pentacosafuoro-; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14pentacosafuorotetradecanol	39239-77-5
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-; Heneicosafuoro-10-iododecane	423-62-1		

No.	Chemical substance group	Chemical name	CAS No.
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9C14 PFCAs), their salts and C9-C14 PFCA-related substances	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-nonacosafluorohexadecyl ester; 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-nonacosafluorohexadecyl methacrylate	4980-53-4
		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14tetra cosafluoro-13-(trifluoromethyl)tetradecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14tetra cosafluoro-13-(trifluoromethyl)tetradecyl acrylate	52956-82-8
		Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro- 9-iodo-; Nonadecafluoro-9-iodononane	558-97-4
		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14p entacosafluorotetradecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14p entacosafluorotetradecyl methacrylate	6014-75-1
		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-nonacosafluoro-; 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-nonacosafluorohexadecanol	60699-51-6
		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13eicosafluoro- 12-(trifluoromethyl)-, 1-(dihydrogen phosphate); 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafluoro- 2hydroxy-12-(trifluoromethyl)tridecyl dihydrogen phosphate	63295-27-2
		1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15tet racosafluoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate); 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15tet racosafluoro-2-hydroxy-14-(trifluoromethyl)pentadecyl dihydrogen phosphate	63295-28-3
		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafluor ododecyl 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, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14p entacosafluorotetradecyl 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
		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, 14,14nonacosafluoro-16-iodo-; 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, 14,14nonacosafluoro-16-iodohexadecane	65510-55-6
		Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- nonadecafluoro-11iodo-; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- nonadecafluoro-11iodoundecane	65510-56-7

No.	Chemical substance group	Chemical name	CAS No.
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9C14 PFCAs), their salts and C9-C14 PFCA-related substances	Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafluoro-10iodo-2-(trifluoromethyl)-; Eicosafluoro-10-iodo-2-(trifluoromethyl)decane	677-93-0
		Alkyl iodides, C4-20, gamma-omega-perfluoro	68188-12-5
		Fatty acids, C7-13, perfluoro	68333-92-6
		Alkyl iodides, C10-12, gamma-omega-perfluoro	68390-33-0
		Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	68412-69-1
		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-1oxodecyl)-, hydroxide, inner salt; 1-(Carboxylatomethyl)-1-(2hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10nonadecafluoro-1-oxodecyl)piperazinium	71356-38-2
		Fatty acids, C7-13, perfluoro, ammonium salts; Carboxylic acids, C7-13, perfluoro, ammonium salts	72968-38-8
		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-eicosafluoro-11-(trifluoromethyl)dodecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-icosafluoro-11-(trifluoromethyl)dodecyl methacrylate	74256-14-7
		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14tetra cosafluoro-13-(trifluoromethyl)tetradecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14tetra cosafluoro-13-(trifluoromethyl)tetradecyl methacrylate	74256-15-8
		2-Propenoic acid, gamma-omega-perfluoro-C8-14-alkyl esters	85631-54-5
		2-Propenoic acid, perfluoro-C8-16-alkyl esters	85681-64-7
		1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafluoro-; 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-heneicosafluoro-	865-86-1
		Alkyl iodides, C6-18, perfluoro	90622-71-2
		Amides, C7-19, alpha-omega-perfluoro-N,N-bis(hydroxyethyl)	90622-99-4
		Fatty acids, C7-19, perfluoro	91032-01-8
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts	93062-53-4		
2-Pentadecanol, 1,1'-[oxybis[(1-methyl-2,1ethanediyl)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-pentacosafluoro-; 1,1'-[oxybis[(1methylethylene)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-pentacosafluoropentadecan-2-ol	93776-00-2		

No.	Chemical substance group	Chemical name	CAS No.
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15pentacosafuoro-2-hydroxypentadecyl)amino]-, inner salt; (2carboxylatoethyl)(dimethyl)[3-[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15pentacosafuoro-2-hydroxypentadecyl)amino]propyl]ammonium	93776-12-6
		1-Propanaminium, N-(2-carboxyethyl)-3-[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuoro-2-hydroxytridecyl)amino]-N,N-dimethyl-, inner salt; (2-carboxylatoethyl)[3-[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuoro-2-hydroxytridecyl)amino]propyl]dimethylammonium	93776-13-7
		1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl)amino]-, innersalt; (2carboxylatoethyl)(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
		1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1); [4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuoro2-hydroxytridecan-1-yl][bis(2-hydroxyethyl)]methylammonium iodide	93776-17-1
		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuoro-, 1-(dihydrogen phosphate); 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuoro-2-hydroxytridecyl dihydrogen phosphate	94158-70-0
		2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15pentacosafuoro-; 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15pentacosafuoropentadecan-2-ol	94159-79-2
		2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuoro-; 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13heneicosafuorotridecan-2-ol	94159-80-5
		2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15tetracosafuoro-14-(trifluoromethyl)-; 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15tetracosafuoro-14-(trifluoromethyl)pentadecan-2-ol	94159-82-7

No.	Chemical substance group	Chemical name	CAS No.
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	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-eicosafluoro-12-(trifluoromethyl)-; 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-icosafluoro-12-(trifluoromethyl)tridecan-1-ol	94159-83-8
		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-, 1-(dihydrogen phosphate), diammonium salt; Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafluoro-2-hydroxytridecyl phosphate	94200-46-1
		1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15pentacosafluoro-, 1-(dihydrogen phosphate), diammonium salt; Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15pentacosafluoro-2-hydroxypentadecyl phosphate	94200-47-2
		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-nonacosafluoro-, 1-(dihydrogen phosphate), diammonium salt; 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-nonacosafluoro-2-hydroxyheptadecyl phosphate	94200-48-3
		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13eicosafluoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt; Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafluoro-2hydroxy-12-(trifluoromethyl)tridecyl phosphate	94200-50-7
		1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15te tracosafluoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt; Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15te tracosafluoro-2-hydroxy-14-(trifluoromethyl)pentadecyl phosphate	94200-51-8
		Linear and branched perfluorocarboxylic acids of the formula $C_nF_{2n+1}-C(=O)OH$ where $n = 8, 9, 10, 11, 12, \text{ or } 13$ (C9-C14 PFCAs), including their salts, and any combinations [The following substances are excluded from this designation: - $C_nF_{2n+1}-X$ , where $X = F, Cl, \text{ or } Br$ where $n = 9, 10, 11, 12, 13$ or 14, including any combinations thereof; - $C_nF_{2n+1}-C(=O)OX'$ where $n > 13$ and $X' = \text{any group, including salts.}$ ]	SN1039



No.	Chemical substance group	Chemical name	CAS No.
30	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9C14 PFCAs), their salts and C9-C14 PFCa-related substances	Any C9-C14 PFCa-related substance having a perfluoro group with the formula $C_nF_{2n+1}$ - directly attached to another carbon atom, where $n = 8, 9, 10, 11, 12, \text{ or } 13$ , including their salts and any combinations, and Any C9-C14 PFCa-related substance having a perfluoro group with the formula $C_nF_{2n+1}$ - that it is not directly attached to another carbon atom, where $n = 9, 10, 11, 12, 13 \text{ or } 14$ as one of the structural elements, including their salts and any combinations [The following substances are excluded from this designation: $-C_nF_{2n+1}-X$ , where $X = F, Cl, \text{ or } Br$ where $n = 9, 10, 11, 12, 13 \text{ or } 14$ , including any combinations thereof; $-C_nF_{2n+1}-C(=O)OX'$ where $n > 13$ and $X' = \text{any group}$ , including salts.]	SN1040
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1000597-52-3
		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9
		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate	108427-55-0
		1-Hexanesulfonyl bromide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	111393-39-6
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with pyrrolidine (1:1)	1187817-57-7
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N,Ndimethyl-	1270179-82-2
		1-Hexanesulfonamide, N,N-diethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	1270179-93-5
		2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl[(perfluoro-C4-8alkyl)sulphonyl]amino]ethyl methacrylate	127133-66-8
		Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-(oxiranylmethyl)	129813-71-4
		Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1naphthalenyl]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
		Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1naphthalenyl]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
		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
		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
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		
beta-Alanine, N-[3-(dimethylamino)propyl]-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	141607-32-1		

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-methyl-	1427176-17-7
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N,Nbis(2-methoxyethyl)-	1427176-20-2
		Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1hexanesulfonate (1:1)	144116-10-9
		Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1hexanesulfonate (1:1)	1462414-59-0
		Benzenamine, 4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	147029-28-5
		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
		Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol	148684-79-1
		Benzene, 1-fluoro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	149652-30-2
		Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1hexanesulfonate (1:1)	153443-35-7
		Benzoic acid, 2,3,4,5-tetrachloro-6-[[[(3hydroxyphenyl)amino]carbonyl]-, perfluoro-C6-8-alkanesulfonates (esters), monopotassium salts	160305-97-5
		2-Propenoic acid, butyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	160336-17-4
		Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate	160901-25-7
		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
		Fatty acids, C18-unsatd., trimers, 2-[methyl[(perfluoro-C4-8alkyl)sulfonyl]amino]ethyl esters	161074-58-4
		Sulfonamides, C4-8-alkane, perfluoro, N-(3-chloro-2-hydroxypropyl)-N-methyl	1645842-67-6
		Sulfonamides, C7-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,3-bis(isocyanatomethyl)benzene and Nbutyl-1-butanamine	1645850-46-9
		Sulfonamides, C7-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,3-bis(isocyanatomethyl)benzene	1645852-09-0
Siloxanes and Silicones, di-Me, Bu group- and 3-[(2-methyl-1-oxo-2propen-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		

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	2-Propenoic acid, polymers with lauryl acrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	1648534-82-0
		Poly(oxy-1,2-ethanediyl), alpha-[2-(methylamino)ethyl]-omegahydroxy-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., C12-16-alkyl ethers	1648539-69-8
		2-Propenoic acid, 2-(methylamino)ethyl ester, N-[(perfluoro-C4-8alkyl)sulfonyl] derivs., polymers with propene	1648540-20-8
		Benzene, 1-nitro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]-	171561-95-8
		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
		Sulphonamides, 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
		Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl], potassium salts	179005-06-2
		Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl]	179005-07-3
		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
		2-Propenoic acid, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl ester	1893-52-3
		Sulphonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid	192662-29-6
		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
		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
		Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with poly(Bu acrylate) and polyethylenepolypropylene glycol mono-Bu ether	222716-67-8
		Pyridinium, 1-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-, inner salt	254889-10-6
		1-Hexanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	30295-56-8
		Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxystearic acid and 2,4-TDI, ammonium salts	306973-47-7
		Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2oxo-5-oxazolidinyl)methyl]	306974-19-6
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2propenyl)oxy]propylgroup] -terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and stearyl methacrylate	306974-28-7		
Sulphonic acids, C6-8-alkane, perfluoro, compounds with polyethylene-polypropylene glycol bis(2-aminopropyl) ether	306974-45-8		

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8alkyl)sulphonyl]amino]ethyl esters	306974-63-0
		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
		Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(hydroxyethyl)-N-methyl perfluoro C4-8-alkane sulphonamides-blocked	306975-84-8
		2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N(hydroxymethyl)-2-propenamamide, 2-[methyl[(perfluoro-C4-8alkyl)sulphonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride	306975-85-9
		1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2propenyl)oxy]ethyl]-, bromide, polymers with Bu acrylate, Bu methacrylate and 2-[methyl[(perfluoro-C4-8alkyl)sulphonyl]amino]ethyl acrylate	306976-25-0
		2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3propanediol and 2-propenoic acid, N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulphonamides-blocked	306976-55-6
		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
		2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8alkyl)sulphonyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolysed, compounds with 2,2'-(methylimino)bis[ethanol]	306977-58-2
		2-Propenoic acid, butyl ester, polymers with acrylamide, 2[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and vinylidene chloride	306978-04-1
		Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methyl perfluoro-C4-8-alkane sulphonamides- and stearyl alc.-blocked	306978-65-4
		Poly(oxy-1,2-ethanediyl), .alpha.-[2-(methylamino)ethyl]-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8alkyl)sulphonyl]	306979-40-8
		Sulphonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediylbis[(2oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-	306980-27-8
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt	341035-71-0
		Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluoro-1-hexanesulfonate (1:1)	341548-85-4
1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluoro-N-(2-hydroxyethyl)-	34455-03-3		
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)	350836-93-0		

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	Perfluorohexane-1-sulphonic acid	355-46-4
		potassium perfluorohexane-1-sulphonate	3871-99-6
		1-Propanaminium, 3-[[carboxymethyl][(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-N,N,N-trimethyl-, inner salt	38850-52-1
		1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-3-[[3sulfopropyl][(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-, inner salt	38850-58-7
		1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl][(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-	38850-60-1
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)	41184-65-0
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)	41242-12-0
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	41997-13-1
		Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)	421555-73-9
		Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic	421555-74-0
		1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	423-50-7
		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	425670-70-8
		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
		1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	50598-28-2
		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, polymethylenepolyphenylene isocyanate and polypropylene glycol	507225-08-3
		1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-, chloride (1:1)	52166-82-2
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)	55120-77-9
1-Hexanesulfonyl chloride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	55591-23-6		
Poly(oxy-1,2-ethanediyl), alpha-[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl]-omega-hydroxy-	56372-23-7		
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-2propen-1-yl-	67584-48-9		

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)	67584-53-6
		2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-57-0
		2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl ester, polymer with octadecyl 2-propenoate and 2-propenoic acid	67906-71-2
		2-Propenoic acid, 2-methyl-, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]butyl ester	67939-61-1
		1-Hexanesulfonamide, N,N'-[phosphinicobis(oxy-2,1ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	67939-92-8
		1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluoro-N-[2-(phosphonoxy)ethyl]-	67969-65-7
		Hexane, 1-(ethenylsulfinyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	680187-85-3
		Hexane, 1-(ethenylsulfonyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	680187-86-4
		Carbamic acid, (4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl] ester	68081-83-4
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)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-2propenoate, 2-methyloxirane polymer with oxirane mono-2propenoate and 1-octanethiol	68227-87-2

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8)heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2propenoate, alpha-(2-methyl-1-oxo-2-propen-1-yl)-omegahydroxypoly(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-1,2ethanediyl), 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 alpha-(1oxo-2-propen-1-yl)-omega-methoxypoly(oxy-1,2-ethanediyl)	68227-94-1
		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-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2propenoate, alpha-(2-methyl-1-oxo-2-propen-1-yl)-omegahydroxypoly(oxy-1,4-butanediyl), alpha-(2-methyl-1-oxo-2-propen-1-yl)-omega-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,4butanediyl), 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[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1octanethiol	68227-96-3
		2-Propenoic acid, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6)tridecafluoroheptyl)sulfonyl]amino]butyl ester	68227-98-5

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	<p>2-Propenoic acid, ethyl ester, polymer with 4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]butyl</p> <p>2-propenoate, 4[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butyl 2propenoate, alpha-(2-methyl-1-oxo-2-propen-1-yl)-omegahydroxypoly(oxy-1,4-butanediyl), alpha-(2-methyl-1-oxo-2-propen-1yl)-omega-hydroxypoly(oxy-1,2-ethanediyl), alpha-(2-methyl-1-oxo2-propen-1-yl)-omega-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy1,4-butanediyl), alpha-(2-methyl-1-oxo-2-propen-1-yl)-omega-[(2methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl), 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]butyl</p> <p>2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]butyl</p> <p>2-propenoate and 4-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]butyl 2-propenoate</p>	68228-00-2
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(4hydroxybutyl)-N-methyl-	68239-74-7
		Ammonium perfluorohexane-1-sulphonate	68259-08-5
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-Nmethyl-	68259-15-4
		Poly[oxy(methyl-1,2-ethanediyl)], alpha-[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl]-omega-hydroxy-	68259-38-1
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(phenylmethyl)-	68298-09-9
		2-Propenoic acid, 2-methyl-, 2-[[[[5-[[[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2methylphenyl]amino]carbonyl]oxy]propyl ester (9CI)	68298-74-8



No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	<p>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]-2methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2propenoate, 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]-2methylphenyl]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 2propenoate, 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</p>	68298-78-2
		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

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	<p>2-Propenoic acid, 2-methyl-, 4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]butyl ester, telomer with butyl 2-propenoate, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 4[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butyl 2methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, alpha-(2-methyl1-oxo-2-propen-1-yl)-omega-hydroxypoly(oxy-1,4-butanediyl), alpha-(2-methyl-1-oxo-2-propen-1-yl)-omega-[(2-methyl-1-oxo-2propen-1-yl)oxy]poly(oxy-1,4-butanediyl), 4[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]butyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol</p>	68299-39-8
		<p>2-Propenoic acid, eicosyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulphonyl] methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulphonyl]amino]ethyl 2-propenoate and octadecyl 2-propenoate</p>	68329-56-6
		Sulfonic acids, C6-12-alkane, perfluoro, potassium salts	68391-09-3
		Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]-, sodium salt (1:1)	68555-70-4
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2hydroxyethyl)-N-methyl-	68555-75-9
		<p>2-Propenoic acid, butyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulphonyl]amino]ethyl 2propenoate</p>	68555-90-8

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	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 2methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)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
		2-Propenoic acid, 2-methyl-, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate	68555-92-0
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2chloro-1,3-butadiene, 2-[ethyl[(1,1,2,2,3,3,4,4,4nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate	68568-77-4
		2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-hydroxypoly(oxy-1,2ethanediyl), alpha-(2-methyl-1-oxo-2-propenyl)-omega-[(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 (9CI)	68586-13-0

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8)heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, telomer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2propenoate, alpha-(2-methyl-1-oxo-2-propen-1-yl)-omegahydroxypoly(oxy-1,2-ethanediyl), alpha-(2-methyl-1-oxo-2-propen-1yl)-omega-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2ethanediyl), 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 1octanethiol	68586-14-1
		Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with TDI	68608-13-9
		Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]	68608-14-0
		1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1butanesulfonamide, 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)-1hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl alc.	68649-26-3
		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)heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2propenoate, 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 2oxiranylmethyl 2-methyl-2-propenoate	68797-76-2
		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

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and alpha-(1-oxo-2-propen-1-yl)-omega-methoxypoly(oxy-1,2-ethanediyl)	68867-60-7
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)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 alpha-(1-oxo-2-propen-1yl)-omega-methoxypoly(oxy-1,2-ethanediyl)	68867-62-9
		2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)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
		Chromium, diaquatetrachloro[μ-[N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]glycinatokappa O:kappa O']]-μ-hydroxybis(2-propanol)di-	68891-98-5
		2-Propenoic acid, eicosyl ester, polymers with branched octylacrylate, 2- [[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl acrylate, 2-[methyl [(nonafluorobutyl)sulphonyl]amino]ethyl acrylate, 2[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl acrylate, 2-[methyl[(tridecafluorohexyl)sulphonyl amino]ethyl acrylate, 2[methyl[(undecafluoropentyl)sulphonyl]amino]ethyl acrylate, polyethylene glycol acrylate Me ether and stearyl acrylate	68909-15-9

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]-	68957-32-4
		Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]-, ethyl ester	68957-53-9
		1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-, iodide (1:1)	68957-58-4
		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
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt	70136-72-0
		tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0
		1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-, sulfate (2:1)	70248-52-1
		2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1dichloroethene, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N(hydroxymethyl)-2-propenamido, 2-[methyl[(1,1,2,2,3,3,4,4,4nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate	70776-36-2
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		

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	2-Propenoic acid, 2-methyl-, 2-[[[5-[[[4[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]butoxy]carbonyl]amino]2-methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,4nonafluorobutyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,4nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol	70900-40-2
		2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2[[methyl[(1,1,2,2,3,3,4,4,4nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[[methyl[(1,1,2,2,3,3,4,4,5,5,5undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-propenoic acid	71487-20-2
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	72033-41-1
		1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl][[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-2-hydroxy-, sodium salt (1:1)	73772-32-4
		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
		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

No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	Benzene, 1-chloro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]-	76848-59-4
		1H-Benzimidazolium, 1,3-diethyl-2-methyl-5-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, 4methylbenzenesulfonate (1:1)	76848-68-5
		1-Propanesulfonic acid, 3-[methyl[3-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]propyl]amino]-, sodium salt (1:1)	80621-17-6
		1-Propanaminium, N-(2-hydroxyethyl)-3-[(2-hydroxy-3sulfopropyl)[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]amino]-N,N-dimethyl-, hydroxide, sodium salt (1:1:1)	81190-38-7
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt	82382-12-5
		1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2hydroxyethyl)-N-propyl-	85665-64-1
		Glycine, N-propyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)	85665-66-3
		1-Hexanesulfinic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (2:1)	86525-30-6
		Thiophene, 2-[2-[(tridecafluorohexyl)sulfonyl]ethenyl]-	86525-43-1
		Furan, 2-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethenyl]-	86525-48-6
		Benzene, 1-methyl-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethenyl]-	86525-51-1
		Benzene, 1-methoxy-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethenyl]-	86525-52-2
		Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)	866621-50-3
		Thiophene, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethyl]-	89863-48-9
		Furan, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethyl]-	89863-49-0
		Benzene, 1-methyl-4-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethyl]-	89863-50-3
		Thiophene, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethyl]-	89863-55-8
Furan, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethyl]-	89863-56-9		
2,4-Pentanedione, 3-[1-(2-thienyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6tridecafluorohexyl)sulfonyl]ethyl]-	89863-63-8		



No.	Chemical substance group	Chemical name	CAS No.
31	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	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
		Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	910606-39-2
		Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)	91081-99-1
		Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	911027-68-4
		Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2propenoate, 3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5
		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1)	92011-17-1
		Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	928049-42-7
		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
		Sulfonic acids, C6-12-alkane, perfluoro	93572-72-6
		Sulfonamides, C4-8-alkane, perfluoro, N-[4,7-dimethyl-4-[[[(1methylpropylidene)amino]oxy]-3,5-dioxa-6-aza-4-silanon-6-en-1-yl]-N-ethyl	944578-05-6
Salts of Perfluorohexane-1-sulphonic acid	SN0090		
Other PFHxS-related substances	-		
32	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> )	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> )	13560-89-9
		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
		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,6aR,7R,10S,10aS,12aR)-rel-	135821-03-3

No.	Chemical substance group	Chemical name	CAS No.
33	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
34	Pentachlorophenol and its salts and esters(PCP)	Pentachlorophenol and its salts and esters(PCP)	87-86-5
35	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	-
36	Polycyclic Aromatic Hydrocarbons (PAHs)	See Appendix 2 PAHs list.	-
37	Mirex	Mirex	2385-85-5
38	Hexachlorobenzene	Hexachlorobenzene	118-74-1
39	Chlorinated Paraffins	Chlorinated Paraffins (C23, 43% Chlorine)	108171-27-3
		Chloroalkanes(C=18-28)	85535-86-0
		Alkanes, C18-20, chloro	106232-85-3
		Alkanes, C22-40, chloro	106232-86-4
		Chlorinated Paraffins may or may not be SCCP or MCCP (other than SN0018, SN1022 and SN1023)	SN1020
		Other Chlorinated Paraffins(other than SCCPs, MCCPs)	-
40	Halogenated organic compounds and Halogenated polymers	Polytetrafluoroethylene (PTFE)	9002-84-0
		Perfluoroalkoxy(PFA)	26655-00-5
		Fluorinated Ethylene Propylene (FEP)	25067-11-2
		Ethylene tetrafluoroethylene (ETFE)	94228-79-2
		Polyvinylidene difluoride (PVDF)	24937-79-9
		Poly(vinyl fluoride)	24981-14-4
		Poly(vinylidene fluoride co-hexafluoro-propylene)	9011-17-0
		Trichloroethylene	79-01-6
		1,2,3-Trichloropropane	96-18-4
		[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5
		[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9
		Pentacosafuorotridecanoic acid	72629-94-8
		Tricosafuorododecanoic acid	307-55-1
		Henicosafuoroundecanoic acid	2058-94-8
		Heptacosafuorotetradecanoic acid	376-06-7
		2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
Perfluorononan-1-oic acid	375-95-1		

No.	Chemical substance group	Chemical name	CAS No.
40	Halogenated organic compounds and Halogenated polymers	Sodium salts of perfluorononan-1-oic-acid	21049-39-8
		Ammonium salts of perfluorononan-1-oic-acid	4149-60-4
		Other halogenated organic compounds and halogenated polymers	-
41	Halogenated Flame Retardants Halogenated polymers	3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	79-94-7
		TBBA, unspecified	30496-13-0
		TBBA-epichlorhydrin oligomer	40039-93-8
		TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
		TBBA carbonate oligomer	28906-13-0
		TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
		TBBA-bisphenol A-phosgene polymer	32844-27-2
		Brominated epoxy resin end-capped with tribromophenol	139638-58-7
		Brominated epoxy resin end-capped with tribromophenol	135229-48-0
		TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
		TBBA-bis-(allyl-ether)	25327-89-3
		TBBA-dimethyl-ether	37853-61-5
		Tetrabromo-bisphenol S	39635-79-5
		TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
		2,4-Dibromophenol	615-58-7
		2,4,6-Tribromophenol	118-79-6
		Pentabromophenol	608-71-9
		2,4,6-Tribromo-phenyl-alltl-ether	3278-89-5
		Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
		Bis(methyl)tetrabromo-phtalate	55481-60-2
		Bis(2-ethylhexyl)tetrabromo-phtalate	26040-51-7
		2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	20566-35-2
		TBPA, glycol-and propylene-oxide esters	75790-69-1
		N,N'-Ethylene-bis-(tetrabromo-phthalimide)	32588-76-4
		Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
		2,3-Dibromo-2-butene-1,4-diol	3234-02-4
		Dibromo-neopentyl-glycol	3296-90-0
		Dibromo-propanol	96-13-9
		Tribromo-neopentyl-alcohol	36483-57-5
		Poly tribromo-styrene	57137-10-7
		Tribromo-styrene	61368-34-1
		Dibromo-styrene grafted PP	171091-06-8
		Poly-dibromo-styrene	31780-26-4
Bromo-/Chloro-paraffins	68955-41-9		
Bromo-/Chloro-alpha-olefin	82600-56-4		
Vinylbromide	593-60-2		
Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9		
Tris(2,4-Dibromo-phenyl)phosphate	49690-63-3		

No.	Chemical substance group	Chemical name	CAS No.
41	Halogenated Flame Retardants Halogenated polymers	Tris(tribromo-neopentyl) phosphate	19186-97-1
		Chlorinated and brominated phosphate ester	125997-20-8
		Pentabromo-toluene	87-83-2
		Pentabromo-benzyl bromide	38521-51-6
		1,3-Butadiene, homopolymer, brominated	68441-46-3
		Pentabromo-benzyl-acrylate, monomer	59447-55-1
		Pentabromo-benzyl-acrylate, polymer	59447-57-3
		Decabromo-diphenyl-ethane	84852-53-9
		Tribromo-bisphenyl-maleinimide	59789-51-4
		Tetrabromo-cyclo-octane	31454-48-5
		1,2-Dibromo-4-(1,2-dibromo-ethyl)cyclo-hexane	3322-93-8
		TBBA Na salt	25357-79-3
		Tetrabromo phthalic-anhydride	632-79-1
		Tris(2-chloroethyl) phosphate (TCEP)	115-96-8
		TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
		Poly(2,6-dibromo-phenylene oxide)	69882-11-7
		Tetra-decabromo-diphenoxy-benzene	58965-66-5
		1,2-Bis(2,4,6-tribromo-phenoxy)ethane	37853-59-1
		Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5
		Tris[2-chloro-1-(chloromethyl)ethyl] phosphate (TDCP)	13674-87-8
		Other Brominated flame retardant	SN0015
Other Chlorinated Flame Retardants	SN0075		
Other Halogenated Flame Retardants	-		
42	Halogenated polymers (excluding fluorinated plastic.)	Polyvinylidene chloride	9002-85-1
		Polychloroprene	9010-98-4
		Poly(vinyl chloride)	9002-86-2
		Polychlorotrifluoroethylene (PCTFE)	9002-83-9
		Ethylene chlorotrifluoroethylene (ECTFE)	25101-45-5
		Other halogenated polymers	-
43	Specific phthalate	Dihexyl phthalate (DnHP)	84-75-3
		Diisononyl phthalate(DINP)	28553-12-0
		Diisononyl phthalate(DINP)	68515-48-0
		Diisodecyl phthalate(DIDP)	26761-40-0
		Diisodecyl phthalate(DIDP)	68515-49-1
		Diocetyl phthalate (DNOP)	117-84-0
44	Azo compounds forming	For specific amines, please see Appendix 1 "List of specific amines".	-
45	Selenium and its compounds	Selenium	7782-49-2
		Selenous acid	7783-00-8
		Hydrogen selenide	7783-07-5
		Sodium selenide	1313-85-5
		Selenium dioxide	7446-08-4
		Sodium selenate	10112-94-4

No.	Chemical substance group	Chemical name	CAS No.
45	Selenium and its compounds	Dimethyl selenide	593-79-3
		Selenium oxide	12640-89-0
		Other selenium compounds	SN0053
46	Nickel and its compounds	Nickel	7440-02-0
		Nickel(II) oxide	1313-99-1
		Nickel(II) carbonate	3333-67-3
		Nickel(II) Sulfate	7786-81-4
		Nickel bis(sulphamidate)	13770-89-3
		Other nickel compounds	SN0027
47	Organotin compounds (excluding specific organotin compounds and dibutyltin (DBT) compounds)	Tin, dichloro[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,(OC-6-12)-	18253-54-8
		Diisooctyl 2,2'-[(dimethylstannylene)bis(thio)]diacetate	26636-01-1
		Dioctyltin(DOT) compounds	SN0073
		Other organic tin compounds	SN0080
48	Mineral oil aromatic hydrocarbons consisting of 1 to 7 aromatic rings (MOAH)	Mineral oil aromatic hydrocarbons consisting of 1 to 7 aromatic rings (MOAH)	-
49	Mineral oil saturated hydrocarbons consisting of 16 to 35 carbon atoms (MOSH)	Mineral oil saturated hydrocarbons consisting of 16 to 35 carbon atoms (MOSH)	-
50	Beryllium oxide (BeO)	Beryllium oxide (BeO)	1304-56-9
51	Formaldehyde	Formaldehyde	50-00-0
52	Perchlorates	Ammonium Perchlorate	7790-98-9
		Potassium Perchlorate	7778-74-7
		Sodium Perchlorate	7601-89-0
		Lithium perchlorate trihydrate	13453-78-6
		Other Perchlorates	SN0034
53	Long-chain perfluoroalkyl carboxylate (LCPFAC) chemical substances	Perfluorooctyl iodide	507-63-1
		Tetrahydroperfluoro-1-decanol	678-39-7
		Perfluoro-1-dodecanol	865-86-1
		Perfluorodecyl iodide	2043-53-0
		1,1,2,2-Tetrahydroperfluorododecyl iodide	2043-54-1
		Perfluorodecylethyl acrylate	17741-60-5
		1,1,2,2-Tetrahydroperfluorodecyl acrylate	27905-45-9
		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
		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-Pentacosafuorotetradecan-1-ol	39239-77-5
		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-Nonacosafuorohexadecan-1-ol	60699-51-6

No.	Chemical substance group	Chemical name	CAS No.
53	Long-chain perfluoroalkyl carboxylate (LCPFAC) chemical substances	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
		Sodium;2-methylpropane-1-sulfonate	68187-47-3
		1,1,2,2-Tetrahydroperfluoroalkyl(C8-C14) alcohol	68391-08-2
		Thiols, C8-20, gamma-omegaperfluoro, telomers with acrylamide	70969-47-0
		Silicic acid (H4SiO4), sodium salt(1:2), reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10heptadecafluoro-1-decanol	125476-71-3
		Thiols, C4-20, gamma-omegaperfluoro, telomers with acrylamide and acrylic acid, sodium salts)	1078712-88-5
		1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(2((gamma-omega-perfluoro-C4-20-alkyl)thio)acetyl) derivs., inner salts	1078715-61-3
		Polyfluoroalkyl betaine (generic)	Accession No. 71217
		Modified fluoroalkyl urethane (generic)	Accession No. 89419
Perfluorinated polyamine (generic)	Accession No. 274147		
54	Tetrabromobisphenol A (TBBPA)	Tetrabromobisphenol A (TBBPA)	79-94-7
		TBBA, unspecified	30496-13-0
		TBBA-epichlorhydrin oligomer	40039-93-8
		TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
		TBBA carbonate oligomer	28906-13-0
		TBBA carbonate oligomer, phenoxy end capped	94334-64-2
		TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
		TBBA-bisphenol A-phosgene polymer	32844-27-2
		1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3dibromopropoxy)benzene]	21850-44-2
		TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
		TBBA-bis-(allyl-ether)	25327-89-3
		TBBA-dimethyl-ether	37853-61-5
		Other tetrabromobisphenol A (TBBPA)	-
55	Medium-chain chlorinated paraffins (MCCP) C14~17	Chloroalkanes(C=10-22)	104948-36-9
		Alkanes, C14-16, chloro	1372804-76-6
		Tetradecane, chloro derivs.	198840-65-2
		Slack Wax (petroleum), chloro	2097144-44-8
		Paraffin waxes and Hydrocarbon waxes, chloro	51990-12-6
		Alkanes, chloro	61788-76-9
		Paraffin waxes, chloro	63449-39-8
		Alkanes, C6-18, chloro	68920-70-7
		Chlorinated microcrystalline hydrocarbon waxes (petroleum)	68938-43-2
		Alkanes, C10-21, chloro	84082-38-2
		Alkanes, C10-32, chloro	84776-06-7
		Alkanes, C16-27, chloro	84776-07-8
		Alkanes, C16-35, chloro	85049-26-9

No.	Chemical substance group	Chemical name	CAS No.
55	Medium-chain chlorinated paraffins (MCCP) C14~17	Paraffin oils, chloro	85422-92-0
		Alkanes, C14-17, chloro	85535-85-9
		Alkanes, C12-14, chloro	85536-22-7
		Alkanes, C10-14, chloro	85681-73-8
		Chloroalkanes (C=12-16)	866758-65-8
		Paraffins (petroleum), normal C>10, chloro	97553-43-0
		Alkanes, C10-26, chloro	97659-46-6
		Chlorinated Paraffins, C14 - C17, Medium Chain (MCCP) (excluding SN1022)	SN0018
	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	SN1022	
56	Per- and polyfluoroalkyl substances (PFAS)	Per- and polyfluoroalkyl substances (PFAS)*	-
57	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE)	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE)	84852-53-9
58	Benzidine-based chemical substances	1,3-Naphthalenedisulfonic acid, 7-hydroxy-8-[2-[4'-[2-(4-hydroxyphenyl)diazenyl]][1,1'-biphenyl]-4-yl]diazenyl]-	117-33-9
		1,3,6-Naphthalenetrisulfonic acid, 8-hydroxy-7-[2-[4'-[2-(2-hydroxy-1-naphthalenyl)diazenyl]][1,1'-biphenyl]-4-yl]diazenyl]-, lithium salt (1:3)	65150-87-0
		2,7-Naphthalenedisulfonic acid, 5-amino-3-[2-[4'-[2-(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)diazenyl]][1,1'-biphenyl]-4-yl]diazenyl]-4-hydroxy-, sodium salt (1:2)	68214-82-4
		2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[2-[4'-[2-[2-hydroxy-4-[(2-methylphenyl)amino]phenyl]diazenyl]][1,1'-biphenyl]-4-yl]diazenyl]-6-(2-phenyldiazenyl)-	72379-45-4
		2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy [[[substituted phenylamino] substituted phenylazo] diphenyl]azo-, phenylazo-, disodium salt. (generic name)	Accession No.21808 CAS No.CBI (NA)
		4-(Substituted naphthalenyl)azo diphenylazo-substituted carbopolycycle azo benzenesulfonic acid, sodium salt. (generic name)	Accession No.24921 CAS No.CBI(NA)
		4-(Substituted phenyl)azo biphenylazo-substituted carbopolycycloazo benzenesulfonic acid, sodium salt. (generic name)	Accession No.26256 CAS No.CBI (NA)
		4-(Substituted phenyl)azo biphenylazo-substituted carbopolycycle azo benzenesulfonic acid, sodium salt. (generic name)	Accession No.26267 CAS No.CBI (NA)
		Phenylazoaminohydroxynaphthalenylazobiphenylazo substituted benzene sodium sulfonate. (generic name).	Accession No.26701 CAS No.CBI (NA)
			[1,1'-Biphenyl]-4,4'-diamine.
	[1,1'-Biphenyl]-4,4'-diamine, dihydrochloride.	531-85-1	

No.	Chemical substance group	Chemical name	CAS No.
58	Benzidine-based chemical substances	1- Naphthalenesulfonic acid, 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[4-amino-, disodium salt.	573-58-0
		2,7-Naphthalenedisulfonic acid, 4-amino-3-[[4'-[(2,4-diaminophenyl) azo][1,1'-biphenyl]-4- yl]azo]-5-hydroxy-6-(phenylazo)-, disodium salt.	1937-37-7
		1-Naphthalenesulfonic acid, 8,8'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[7-hydroxy-, disodium salt.	2302-97-8
		2,7-Naphthalenedisulfonic acid, 5-amino-3-[[4'-[(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-4-hydroxy-, trisodium salt.	2429-73-4
		Benzoic acid, 5-[[4'-[(1-amino-4-sulfo-2-naphthalenyl) azo][1,1'-biphenyl]-4-yl]azo]-2- hydroxy-, disodium salt.	2429-79-0
		Benzoic acid, 5-[[4'-[[2,6-diamino-3-[[8-hydroxy-3,6-disulfo-7-[(4-sulfo-1-naphthalenyl)azo]-2- naphthalenyl]azo]-5-methylphenyl]azo][1,1'- biphenyl]-4-yl]azo]-2-hydroxy-, tetrasodium salt.	2429-81-4
		Benzoic acid, 5-[[4'-[(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl) azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt.	2429-82-5
		2,7-Naphthalenedisulfonic acid, 4-amino-3-[[4'-[(2,4-diamino-5-methylphenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)-, disodium salt.	2429-83-6
		Benzoic acid, 5-[[4'-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt.	2429-84-7
		Benzoic acid, 5-[[4'-[[2,6-diamino-3-methyl-5-[(4-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4- yl]azo]-2-hydroxy-, disodium salt.	2586-58-5
		2,7-Naphthalenedisulfonic acid, 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt.	2602-46-2
		Benzoic acid, 5-[[4'-[[2,4-dihydroxy-3-[(4-sulfophenyl) azo]phenyl]azo][1,1'-biphenyl]-4- yl]azo]-2-hydroxy-, disodium salt.	2893-80-3
		1,3-Naphthalenedisulfonic acid, 8-[[4'-[(4-ethoxyphenyl)azo][1,1'-biphenyl]-4-yl]azo]-7-hydroxy-, disodium salt	3530-19-6
		1,3-Naphthalenedisulfonic acid, 7-hydroxy-8-[[4'-[[4-[(4-methylphenyl)sulfonyl]oxy]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-, disodium salt.	3567-65-5
		2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[[4'-[(4-hydroxyphenyl)azo][1,1'- biphenyl]-4- yl]azo]-6-(phenylazo)-, disodium salt.	3626-28-6
		Benzoic acid, 5-[[4'-[[2,4-diamino-5-[(4-sulfophenyl) azo]phenyl]azo][1,1' biphenyl]-4- yl]azo]-2-hydroxy-, disodium salt.	3811-71-0
2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-6-[[4'-[(4-hydroxyphenyl)azo][1,1'-biphenyl]-4- yl]azo]-3-[(4-nitrophenyl)azo]-, disodium salt.	4335-09-5		
2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[[4'-[[4-hydroxy-2-[(2- methylphenyl)amino]phenyl]azo] [1,1'-biphenyl]-4-yl]azo]-6-[(4-sulfophenyl) azo]-, trisodium salt.	6358-80-1		



No.	Chemical substance group	Chemical name	CAS No.
58	Benzidine-based chemical substances	Benzoic acid, 5-[[4'-[[4-[(4-amino-7-sulfo-1-naphthalenyl)azo]-6-sulfo-1-naphthalenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, trisodium salt.	6360-29-8
		Benzoic acid, 5-[[4'-[[2,6-diamino-3-methyl-5-[(4-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-3-methyl-, disodium salt.	6360-54-9
		Benzoic acid, 3,3'-[(3,7-disulfo-1,5-naphthalenediyl)bis [azo(6-hydroxy-3,1-phenylene)azo[6(or7)-sulfo-4,1-naphthalenediyl]azo[1,1'-biphenyl]-4,4'-diylazo]]bis[6-hydroxy-, hexasodium salt.	8014-91-3
		Cuprate(2-), [5-[[4'-[[2,6-dihydroxy-3-[(2-hydroxy-5-sulfophenyl)azo]phenyl]azo][1,1'- biphenyl]-4-yl]azo]-2-hydroxybenzoato(4-)]-, disodium salt.	16071-86-6

\* PFAS signifies any chemical substances with at least a "perfluoromethyl group (-CF<sub>3</sub>)" or a "perfluoromethylene group (-CF<sub>2</sub>-)."

Please refer to:

OECD (Organisation for Economic Co-operation and Development) PFAS database : <https://www.oecd.org/chemicalsafety/portal-perfluorinated-chemicals/> US EPA (Environmental Protection Agency)

PFAS master list : <https://comptox.epa.gov/dashboard/chemical-lists/pfasmaster>