

# Konica Minolta

## Green Procurement Guidelines

Industry business  
Image solutions business  
Edition 31.0



**KONICA MINOLTA**

KONICA MINOLTA, INC.

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## 1. Introduction

### Konica Minolta Environmental Policy

The Konica Minolta Group aims to promote sustainable development and profitable growth. We integrate environmental, economic and social perspectives into our business strategies so that our business activities are implemented in harmony with human lives and with the environment in all aspects.

Our concept is to make steady progress toward resolution of environmental challenges based on quantitative measurement and analysis of reliable data in regard to environmental performance and impact. This basic concept is demonstrated in the following affirmation:

### "Management Based On Facts"

#### 1. Working toward a sustainable society as a global citizen

In response to the call for a sustainable society, we will conduct business activities from the perspective of ongoing enhancement of performance in environmental preservation, economic growth and social responsibilities (ethics). Every one of us will enhance its knowledge and awareness on the environment, economies and societies on a global scale and act with responsibility in pursuit of a sustainable society.

#### 2. Compliance with laws and other requirements

We will comply with legal requirements in respective countries and regions, as well as our Group standards. In addition, we will respect, in an equitable manner, expectations of our stakeholders and consensus in the international community.

#### 3. Consideration for the environment throughout the entire life cycle of products and services

We are committed to reducing the environmental load in all stages throughout the entire life cycle of products and services, recognizing that responsibility for a product rests with its manufacture.

#### 4. Initiatives to counter global warming

We will continuously reduce greenhouse gas emissions that derive from our business activities from the perspective of the life cycle of our products and services throughout the entire Group, recognizing that global warming is one of the most important world issues.

#### 5. Initiatives toward a recycling-oriented society

We are always reviewing what we can do as a corporate citizen in order to create recycling-oriented society while striving for minimizing consumption of natural resources and promoting "Zero Waste Emission" activities. In addition, we will accelerate initiatives for the recovery and recycling of end-of-life products and packaging materials.

#### 6. Prevention of chemical pollution and minimization of potential risks to the environment

We will take every countermeasure for preventing chemical pollutions, recognizing that chemical substances can impose significant impact on human health and safety and the environment. At the same time, we will continuously suppress use of chemicals and reduce discharge volume in order to minimize environmental risks.

#### 7. Promotion of information disclosure

We will execute accountability to all the stakeholders by actively disclosing environmental information and ensuring risk communication. We will as well make every effort to accomplish our commitment to the societies. Our Environmental Policy is to be disclosed to the public.

#### 8. Establishment of environmental objectives and targets

We establish and administer environmental objectives, targets, and management programs to translate this Environmental Policy into reality. We will continuously review such objectives, targets and programs for further improvement of our environmental performance.

## 2. Purpose of green procurement

The purpose of green procurement is to accurately obtain information on Konica Minolta's "substances to manage" from suppliers, procure materials that include no hazardous substances for Konica Minolta products, and appropriately manage information on chemicals to be transmitted to the supply chain and to consumers.

## 3. Scope

Konica Minolta's green procurement applies to the following articles that the Konica Minolta Group procures from suppliers:

But production facilities and test and research uses are not included.

- Equipment Products (Products, Parts, and components)
- Chemicals Products (Chemicals, service sub-materials, and production sub-materials used in production) (\*1)
- Packaging (Product packaging, Logistics Packaging) (\*2)

(\*1) The chemicals

- Chemicals (e.g. toner, ink, service sub-materials) and their constituent materials procured by the Konica Minolta Group.
- Raw materials and supplementary materials (grease, coating, adhesives, etc.) used in the Konica Minolta Group's production sites

(\*2) Packaging that does not arrive at the end-user and is not imported or exported, or packaging that is not subject to control at our delivery point, is not included in the scope.

## 4. Definition of terms

Substances to manage: Chemical substances that have been determined to require management at Konica Minolta. ChemSHERPA managed substances and all chemical substances and the following prohibited and scheduled prohibited substances and reportable substances for equipment products.

Prohibited substances: Among the controlled substances, substances whose inclusion is prohibited by laws and regulations shown in Attached Table 1 and substances whose inclusion is restricted by Konica Minolta's voluntary efforts.

Scheduled prohibited substances: Among the controlled substances, those that are under consideration for prohibition under treaties, laws, regulations, etc., and that Konica Minolta plans to prohibit within two years are shown in Appendix 1.

Reportable substances: Among the substances to manage, those substances (shown in Appendix 1) that should be reduced depending on the situation and, where included in parts, for which information should be provided in accordance with laws.

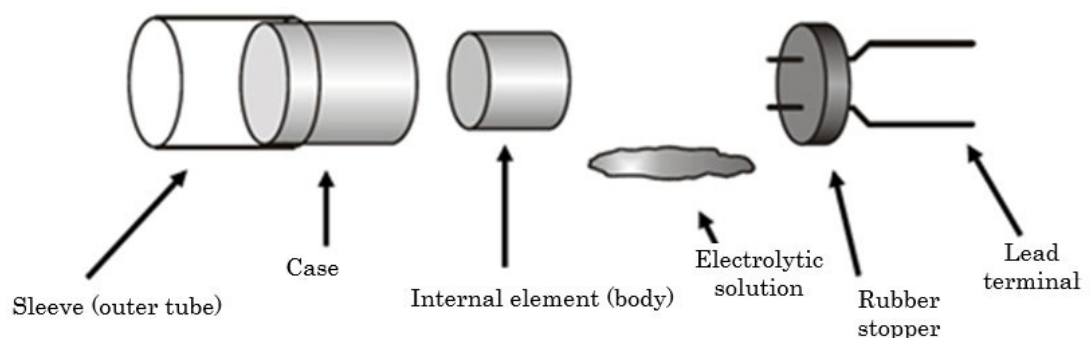
Prohibited and restricted chemical substances: environmentally hazardous substances with long-term adverse effects and substances with serious health risks which the Konicaminolta Group should exclude in its chemical products.

Homogeneous material: Based on the definition in EU RoHS (2011/65/EU), a material that cannot be mechanically separated into different materials. Examples include various types of plastic, ceramic, glass, metal, alloy, paper, board, resin, coating, paint, and plating.

Exemptions: Based on the definition in EU RoHS (2011/65/EU), uses that are temporarily permitted in an application where substitution is technically impracticable. The applications, limitations on the amount used, and periods of validity are established in detailed for each substance.

Intentional addition: The condition of having been added for some purpose, such as giving a product a certain property.

<Example: electrolytic capacitor>



Source: Material Composition Survey and Response Manual (published: Japan VT62474)

## 5. Request for supplier environmental management system

Suppliers should establish an environmental management system (EMS) at factories where suppliers produce or manufacture items for the Konica Minolta group. Specifically, this includes:

- Establishment and maintenance of environmental management organization and system in accordance with ISO14001, EMAS and other standards.
- Obtainment of ISO14001 certification, etc.
- Execution and record of required environmental management such as environment of factory and labor
- Reflection of Konica Minolta requests in management and production
- Securing of appropriate traceability from raw materials and parts to finished products
- Management of substances regulated under the Montreal Protocol
- Effort to reduce power consumption, water, production loss, CO<sub>2</sub>
- Corporate effort towards zero-emission and recycling
- Development of a system to enable the management of chemical substances in products according to the principles and guidelines for the management of chemical substances in products as stated in JIS Z7201, including the establishment of a system to enable the management of chemical substances in products to be carried out reliably.

Established system and performed management should be properly documented and recorded.

## 6. Requirements for supplied products

### 1) Requirements for chemical substances in products (CiP)

- Regarding prohibited substances in equipment products, delivered items must not contain more than the control standards, except for exempted applications.
- Information is to be provided to Konica Minolta regarding substances to manage.
- For scheduled prohibited substances, we may request a replacement before the scheduled prohibited date.

The administrative standards to be applied depend on the target use.

Some substances are subject to separate control criteria for each product group due to environmental labelling compliance or customer requirements.

See Appendix 1 for details.

### 2) Basis of determination of inclusion status

Determine inclusion status and content of survey target chemicals on a rational and chemical basis. Specifically:

- chemSHERPA data (CI, AI)
- Design value, prescription value
- Analytical value

Determine using one or a combination of the above.

If an analysis value is used as the basis of determination, consider maldistribution and other statistical variation between lots, within lots, and parts of an item.

### 3) Chemical substances in products (CiP) survey

Konica Minolta will email you a survey request for covered items. After receiving the survey request email, please answer the request. If the request is made via the Konica Minolta Green survey system, please access the system, review the request and answer.

<https://greenweb4.konicaminolta.com/sigma2/>

For equipment products, the survey response format for CiP is based on the chemSHERPA-AI File. Composition information is required. Information on compliance judgment is optional.

Follow the chemSHERPA usage rules when preparing the chemSHERPA-AI File.

See the following website for details.

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

For chemical products, please submit SDSs, certificates of conformity with chemical laws and regulations, and chemSHERPA-CI.

Due to amendments to legislation, etc., we will send you an email requesting you to investigate SDSs and certificates of conformity with chemicals legislation, etc. Please answer the request after checking the contents.

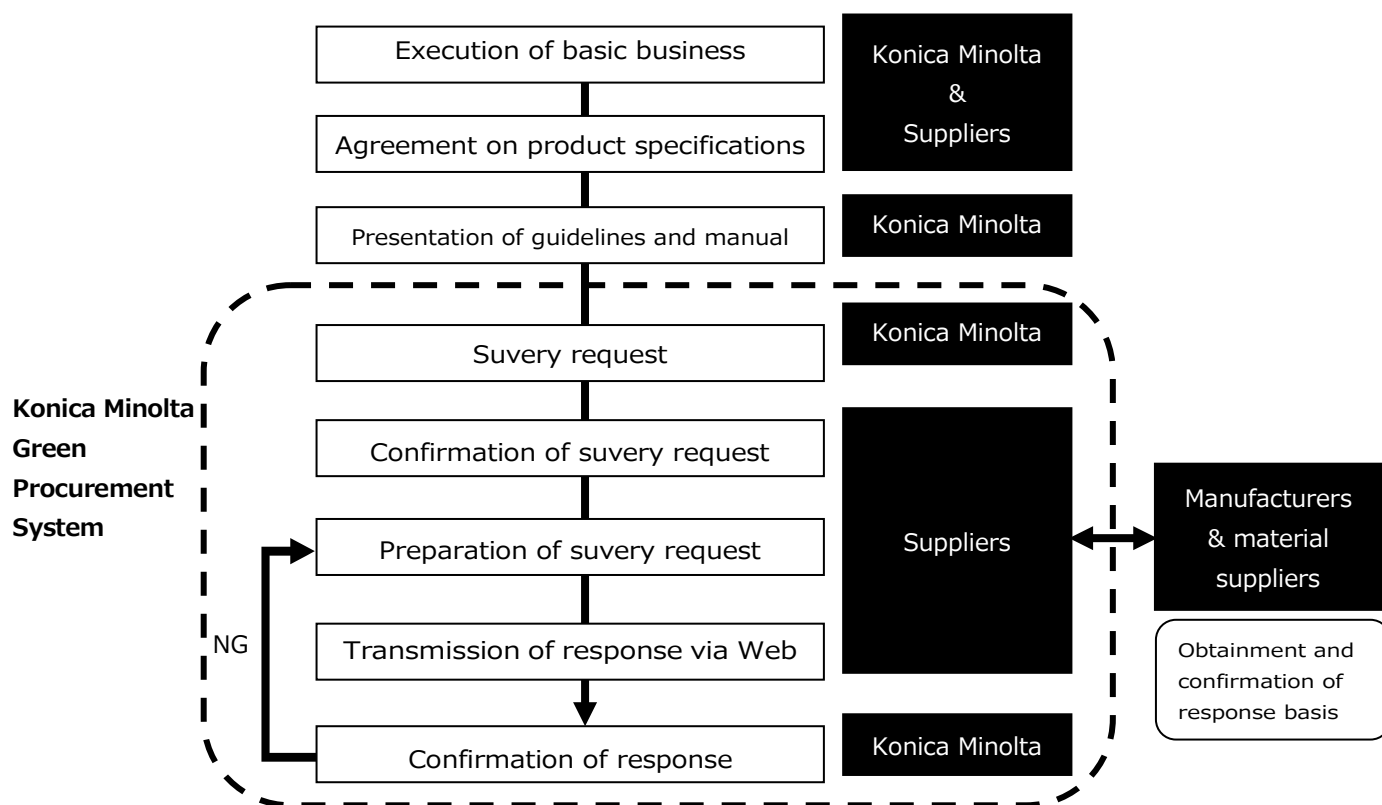
We will determine whether a chemical product corresponds to a prohibited restricted substance or not. As the risks of chemicals vary depending on the form of exposure, in order to manage the risks more in line with reality, they are classified into five categories based on the assumed usage situation, ranging from 'cases where the product is used under strict control (e.g. production sites)' to 'cases where an unspecified number of users are assumed and measures cannot be expected', and requirements are set according to the respective risks.

For packaging materials, logistics materials, and procurement items that may be used for them, please submit a "Declaration of Conformity on Chemical Substances Contained in Packaging Materials" in addition to the "chemSHERPA-AI File."

A different survey method and/or response format might be requested depending on the business division or item. Evidence such as measured results might need to be submitted.

Please check with a Konica Minolta representative for details.

category	subclass	specific example	Standards	Required documents (Investigation documents)
Equipment Products	Products	PCs, monitors, printers, office equipment, etc.	Annex1	chemSHERPA-AI
	Parts and components	Articles, substrates, batteries, steel materials, bar solder, string solder, glass plates, PET bases, piezo elements, paper, etc.	Annex1	
packaging	Product packaging	Containers, container caps, plastic bags, cushioning materials, roll cores, etc.	Annex1	<ul style="list-style-type: none"> <li>•ChemSHERPA-AI</li> <li>•Declaration of Conformity of Chemical Substances in Packaging Materials</li> </ul>
	Logistics Packaging	Stretch film, cardboard for collective packaging, pallets, PP bands, cushioning materials, etc.	Annex1	
chemicals	Products	Toner, ink, etc.	Annex2	<ul style="list-style-type: none"> <li>•chemSHERPA-CI</li> <li>•SDS,</li> <li>•Chemicals Certificate of Conformity</li> </ul>
	Chemicals, service sub-materials and production sub-materials used in production	Raw materials, preforms, resin pellets, glass cullet, adhesives, plating solutions, solvents, greases for products, targets, water repellents, coating agents, paints, solder pastes, drying agents, preservatives, cleaning agents, mold release agents, cutting fluids, abrasives, resist fluids, etc.	Annex2	



## 7. Requests when changing a response

If a change in an already submitted response occurs due to the following reasons, please notify a Konica Minolta representative promptly.

### ① Changing parts

- At changing design
- At changing manufacturing conditions (such as materials, equipment, and so on)
- At changing commercial distribution (supplier, trading company, manufacturer of raw materials, and so on)

### ② Addition of substances listed in the Green Procurement Guidelines

- When controlled substances are added to the Konica Minolta Green Procurement Guidelines.

### ③ Chemical composition and compositional changes

- At changing design
- At changing manufacturing conditions (such as materials, equipment, and so on)
- At changing commercial distribution (supplier, trading company, manufacturer of raw materials, and so on)

### ④ Change in response to the Chemicals Regulatory Compliance Certificate

- At change of inventory registration status
- At change of hazard information.
- At In case the substance is contained in a substance that corresponds to a change/addition of a substance subject to the answered regulation



## Revision History

Revision date	Edition	Revision details
March 31,2025	31.0	<p>1.Revision of the prohibited/reportable substances list</p> <p>Add the substances registered with the IEC 62474(D29.0/D30.0) update.</p> <p>P6 Setting thresholds for PBDEs in products not subject to EU RoHS</p> <p>P23 Formaldehyde: Change of Application for Substances.</p> <p>P31 Hexabromocyclododecane: control threshold changed.</p> <p>P34 PIP (3:1): excluded uses are added to the target uses and their control thresholds are changed.</p> <p>P39 Halogenated flame retardants: reference substances added and control limits changed.</p> <p>P60 Dechlorane plus: Addition of excluded uses to the application for substances and changes to the control thresholds.</p> <p>P61 UV328: Addition of excluded uses to the application for substances and changes to the control thresholds.</p> <p>Methoxychlor added to P62.</p> <p>TSCA PBT substances added.</p> <p>PFHxA added to P65.</p> <p>2. The following five substances have been defined as scheduled to be prohibited</p> <p>S1_Medium chain chlorinated paraffins (MCCP)</p> <p>S2_Perfluorocarboxylic acids (PFCA C15-C21), their salts and related substances</p> <p>S3 chlorpyrifos</p> <p>S4 Decabromo-diphenyl-ethane {1,1'-(ethane-1,2-diyl)bis[pentabromo benzene]} (DBDPE)</p> <p>S5 Tetrabromo-bisphenol A (TBBPA)</p>
March 31,2024	30.0	<p>1.Revision of the prohibited/reportable substances list</p> <ul style="list-style-type: none"> <li>•Add the substances registered with the IEC 62474(D27.0/D28.0) update</li> <li>Unification of control standard values with IEC62474 list entries.</li> <li>Deletion of planned regulatory dates for MOAH and MOSH in P37.</li> <li>P34 PIP (3:1) target use changed to all</li> <li>Eight substances (groups) added to the list of Reporting substances (R94-R101)</li> <li>Prohibited substances REACH SVHC targets added to Reporting substances</li> <li>•EU POPs controlled substances added to prohibited substances.</li> <li>•Part of the list of prohibited substances is made annexed as standards for specific products.</li> <li>•Update from the official announcement on the RoHS exemption</li> <li>•Revised list of reference substance names for substance groups.</li> <li>PFHxS Additional example substances</li> </ul> <p>2. Business-specific environmental labelling standards, etc. are set as standards for each business unit.</p> <p>3. Chemicals added to control standards.</p> <ul style="list-style-type: none"> <li>•Addition of a table of prohibited and restricted chemical substances.</li> </ul>
March 24,2023	29.0	<ul style="list-style-type: none"> <li>•Revision of the prohibited/reportable substances list</li> <li>Add the substances registered with the IEC 62474(D26.00) update</li> <li>•Added 9 types of substance to Reporting substances. (R77-R85)</li> <li>•Changed the target of R76 PFAS from "packaging materials" to "all"</li> <li>•P32 PAH criteria split into REACH regulation and GS mark.</li> <li>•Created a column for reference regulations and added a list of regulations as Appendix 3.</li> </ul> <p>(Revised sections are shown in blue.)</p>
Revision history prior to the 28th edition is omitted		

## &lt;Prohibited substances&gt;

Revision date 31-Mar-2025

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in homogeneous material unless otherwise specified)	Remarks	Reference laws and regulations
P1	Cadmium/Cadmium compounds	Annex2-1	Parts	0.01%(100ppm)	Listed on Annex 1 are not prohibited.	1,2,3,4,5
			Batteries	0.001% of battery (10ppm)	Medical instruments exempt	22,24
			Packaging materials	Total weight of Cd,Pb,Hg,CrVI 0.01%(100ppm)		40,45
P2	Chromium (VI) Compounds	Annex2-2	Parts	0.1%(1000ppm)	Listed on Annex 1 are not prohibited	1,2,3,4
			Packaging materials	Total weight of Cd,Pb,Hg,CrVI 0.01%(100ppm)		40,45
P3	Lead/Lead Compounds	Annex2-3	Parts other than below	0.1%(1000ppm)	Listed on Annex 1 are not prohibited	1,2,3,4,5
			PVC sheathed wires that are external and frequently handled	0.03% (300ppm)		18
			PVC parts	0.1%(1000ppm)		5
			Consumer products designed or intended primarily for children 12 years of age or younger	0.01% (100ppm)		12
			Paint and similar surface coatings of toys and other articles intended for use by children	0.009% (90ppm)		
			Batteries	0.004% of battery (40ppm)		22,23
			Packaging materials	Total weight of Cd,Pb,Hg,CrVI 0.01%(100ppm)		40,45
P4	Mercury/Mercury Compounds	Annex2-4	Parts	Intentionally added 0.1%(1000ppm)	Listed on Annex 1 are not prohibited.	1,2,3,4,5, 14
			Batteries	0.0001% of battery (1ppm)		14,22,23, 24,25, 26
			Packaging materials	Total weight of Cd,Pb,Hg,CrVI 0.01%(100ppm)		40,45
P5	Polybrominated biphenyls (PBB)	Annex2-6	All	0.1%(1000ppm)		1,2,3
P6	Polybrominated diphenyl ethers (PBDE)	Annex2-7	Products covered by EU RoHS	Intentionally added 0.1%(1000ppm)	Deca-BDE and Hexabromobiphenyl is also prohibited.	1,2,3,7,8, 13,46
			EU RoHS exempt products	Intentionally added 0.05%(500ppm)		
P7	Dibutyltin (DBT) compounds	Annex2-15	All	0.1% of tin in the part	Prohibited only for general public supply	5
P8	Diocetyl tin (DOT) compounds	Annex2-19	(a) Textile and leather articles intended to come into contact with the skin (b) Childcare articles (c) Two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1% of tin in the part		5
P9	Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added		7
P10	Tri-substituted organostannic compounds	Annex2-5	All	Intentionally added		5,7,9
P11	Polychlorinated Biphenyls (PCBs) and specific substitutes	Annex2-8	All	Intentionally added		7,8,13
P12	Polychlorinated Terphenyls (PCTs)	61788-33-8	All	0.005% (50ppm)		5
P13	Polychlorinated naphthalenes(PCN) (Cl $\geq$ 1)	Annex2-9	All	Intentionally added		7,13
P14	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	Annex2-13	All	Intentionally added 0.1%(1000ppm)		9,11,13
P15	Perfluorooctane sulfonates (PFOS)	Annex2-14	Parts	Intentionally added 0.0000025%(25ppb)		7,10,13
			Related substances in parts	0.0001%(1000ppb)		
			Textiles or other coated materials	Intentionally added 1 $\mu$ g/m <sup>2</sup>		

	Substance	CAS No.	Application for Substances		Control limit and threshold (Contents in homogeneous material unless otherwise specified)	Remarks	Reference laws and regulations
P16	Azocolourants and Azodyes which form certain aromatic amines	Annex2-11	Textiles and leather products		Amine thresholds in finished products:0.003%(30ppm)		5
P17	Asbestos	Annex2-10	All		Intentionally added		5,8,11
P18	Ozone Depleting Substances(ODSs)	Annex2-12	All(Including prohibition in manufacturing)		Intentionally added		28,29,30,31
P19	Fluorinated Greenhouse Gases (PFC, SF6, HFC)	Annex2-17	All		Intentionally added		27
P20	Polyvinyl Chloride(PVC)	-	Resin packaging materials (Other than seal tapes for photographic arts films, X-ray films and color papers)		Intentionally added	※Not listed in chemSHERPA	41
P21	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	All		Intentionally added		6,7
P22	Radioactive substances	Annex2-16	All		Intentionally added		32,33,34,35
P23	Formaldehyde	50-00-0	(a) clothing or related accessories (b) textiles other than clothing, which come into contact with human skin to an extent similar to clothing (c) footwear		0.0075%(75ppm)		15,17
P24	Nickel/Nickel Compounds	Annex2-33	Parts that may come into direct contact with human skin for a long time		Intentionally added		5
P25	Dimethylfumarate (DMF)	624-49-7	All		0.00001%(0.1ppm)		5
P26	Benzyl butyl phthalate (BBP)	85-68-7	Parts	Other than Toys or childcare articles	0.1%(1000ppm) Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)	<See Note.1>	1
			Other than above		Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)		5,12
P27	Dibutyl phthalate (DBP)	84-74-2	Parts	Other than Toys or childcare articles	0.1%(1000ppm) Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)	<See Note.1>	1
			Other than above		Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)		5,12
P28	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	Parts	Other than Toys or childcare articles	0.1%(1000ppm) Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)	<See Note.1>	1
			Other than above		Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)		5,12
P29	Diisobutyl phthalate (DIBP)	84-69-5	Parts	Other than Toys or childcare articles	0.1%(1000ppm) Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)	<See Note.1>	1
			Other than above		Total weight of BBP, DBP, DEHP, DIBP 0.1%(1000ppm)		5,12
P30	Phthalates, Selected Group 2 (DIDP, DINP, DNOP)	Annex2-21	Children's toy or child care article that can be placed in a child's mouth		0.1%(1000ppm)		5,12
P31	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	Annex2-25	All		Intentionally added 0.0075%(75ppm)		7,13
P32	Polycyclic aromatic hydrocarbons(PAHs)	Annex2-24	Rubber parts or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles		Each of PAHs be weight of the plastic or rubber parts $\leq$ 1mg / Kg Each of PAHs be weight of the plastic or rubber parts $\leq$ 0.5mg / Kg	except toys and childcare articles toys and childcare articles	5
P33	Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	Annex2-31	Parts		Intentionally added Threshold as an impurity:0.0000025% (25ppb)		7,13,16
			PFOA-related compounds, in article or mixture		Intentionally added 1 $\mu$ g/m2		

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in homogeneous material unless otherwise specified)	Remarks	Reference laws and regulations
P34	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	68937-41-7	All(Excluding lubricants, grease, wire harnesses and circuit boards)	Intentionally added 0.1%(1000ppm) in parts	Medical equipment applications are not prohibited. Lubricating oil and grease will be prohibited from November 22, 2039.	8
P35	Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS related compounds	Annex2-34	All	PFHxS 0.0000025% (25ppb) Intentionally added Total of PFHxS related substances 0.0001% (1ppm) Intentionally added		7,11,13
P36	Perfluorocarboxylic acids (PFCA:C9-C14),their salts and C9-C14 PFCA-related compounds	Annex2-42	All	C9-C14 PFCA 0.0000025% (25ppb) Total of C9-C14 PFCA-related substances 0.000026% (260ppb)		5
P37	Aromatic hydrocarbons of mineral oil (MOAH) comprising from 1 to 7 aromatic rings	-	Packaging materials & Included printed matter	Aromatic hydrocarbons of mineral oil comprising from 1 to 7 aromatic rings (in ink) 1000ppm or Aromatic hydrocarbons of mineral oil comprising from 3 to 7 aromatic rings (in ink) 1ppm	※Not listed in chemSHERPA	42
	Saturated hydrocarbons with mineral oil (MOSH) comprising from 16 to 35 carbon atoms	-	Packaging materials & Included printed matter	(in ink)1000ppm	※Not listed in chemSHERPA	
P38	4,4'-isopropylidene diphenol(BPA)	80-05-7	Packaging materials	Intentionally added	Except for packaging materials, refer to monitoring substance R41	43
P39	Halogenated flame retardants	Annex2-22 Annex2-23 Annex2-51	Enclosure and stand of electronic displays with a screen area greater than 100 square centimetres	0.1 mass% of halogen content	Except for certain applications, refer to monitoring substance R1,R2	20
P40	Hexachlorobenzene	118-74-1	All	0.001%(10ppm)		13,46
P41	Aldrin	309-00-2	All	Intentionally added		13,46
P42	Dieldrin	60-57-1	All	Intentionally added		13,46
P43	Endrin	72-20-8	All	Intentionally added		13,46
P44	DDT	50-29-3	All	Intentionally added		13,46
P45	Chlordane	57-74-9	All	Intentionally added		13,46
P46	Heptachlor	76-44-8	All	Intentionally added		13,46
P47	Toxaphene	8001-35-2	All	Intentionally added		13,46
P48	Mirex	2385-85-5	All	Intentionally added		13,46
P49	Hexachlorobutadiene	87-68-3	All	Intentionally added		13,46,8
P50	Pentachlorobenzene	608-93-5	All	Intentionally added		13,46
P51	Alphahexachlorocyclohexane	319-84-6	All	Intentionally added		13,46
P52	Betahexachlorocyclohexane	319-85-7	All	Intentionally added		13,46
P53	Lindane	58-89-9	All	Intentionally added		13,46
P54	Chlordecone	143-50-0	All	Intentionally added		13,46
P55	Tetrabromodiphenyl ether and pentabromodiphenyl ether	—	All	0.001%(10ppm)		13,46
P56	Hexabromodiphenyl ether and heptabromodiphenyl ether	—	All	0.001%(10ppm)		13,46
P57	Technical endosulfan and its related isomers	Annex2-47	All	Intentionally added		13,46
P58	Pentachlorophenol and its salts andesters	Annex2-49	All	Intentionally added 0.0005%(5ppm)		7,13,46
P59	Dicofol	Annex2-48	All	Intentionally added		13,46
P60	Dechlorane Plus™TM [covering any of its individual anti- and syn-isomers or any combination there of]	Annex2-35	All(excluding medical imaging equipment)	Intentionally added 0.0001%(1ppm)	Medical imaging equipment will be prohibited from February 27, 2030.	7,13,46
P61	2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)	25973-55-1	All(excluding triacetyl cellulose(TAC) film for polarisers)	Intentionally added 0.0001%(1ppm)	TAC films will be prohibited from February 27, 2030.	7,13,46
P62	Methoxychlor	Annex2-52	All	Intentionally added 0.01%(100ppm)		13,46

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in homogeneous material unless otherwise specified)	Remarks	Reference laws and regulations
P63	Pentachlorothiophenol (PCTP)	133-49-3	All	1% in parts	Medical equipment applications are not prohibited	8
P64	2,4,6-tri-tert-butylphenol	732-26-3	All	0.3%(3000ppm) in parts	Medical equipment applications are not prohibited	8
P65	Perfluorohexane acid (PFHxA)its salts and PFHxA related compounds	Annex2-53	(a)for the general public, textile,leather,furs,hides (b)footwear	PFHxA 0.0000025% (25ppb) Total of PFHxA-related substances 0.0001%(1000ppb)	Please refer to R69 for other than target applications.	5

Note1: As phthalates are migratory, please manage phthalates to ensure that migratory contamination does not occur.

<Additional prohibited substances for information equipment products.>

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in homogeneous material unless otherwise specified)	Remarks	Reference laws and regulations
P101	Cadmium/Cadmium compounds	Annex2-1	Imaging equipment	0.01%(100ppm)	Exempting cadmium usage in imaging equipment is also prohibited	101
P102	Mercury/Mercury Compounds	Annex2-4	Imaging equipment	Intentionally added		101

<Additional prohibited substances for industrial products.>

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in homogeneous material unless otherwise specified)	Remarks	Reference laws and regulations
P106	Beryllium Oxide	1304-56-9	All Optical Components Division products (except those for special applications for which there is no alternative)	Intentionally added		102
P107	Cobalt Dichloride	7646-79-9	Humidity indicator for drying agents (e.g. silica gel) used in Optical Components Division products.	Intentionally added		6

<Scheduled Prohibited Substances>

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in homogeneous material unless otherwise specified)	Remarks	Reference laws and regulations
S1	Medium-chain chlorinated paraffins (MCCP)	Annex2-39	All	Report the content	Scheduled date of prohibition December 31, 2026 <See Note.2> Also applies to R65 until the Scheduled Prohibited Substances date	(regulation under consideration,46)
S2	Perfluorocarboxylic acids (PFCA:C15-C21),their salts and C15-C21 PFCA-related compounds	Annex2-54	All	Report the content	Scheduled date of prohibition December 31, 2026 <See Note.2> Contained in PFAS-related substances.	(regulation under consideration,46)
S3	chlorpyrifos	2921-88-2	All	Report the content	Scheduled date of prohibition December 31, 2026 <See Note.2> ※Not listed in chemSHERPA	(regulation under consideration,46)
S4	Decabromo-diphenyl-ethane {1,1'-(ethane-1,2-diyl)bis[pentabromo benzene]} (DBDPE)	84852-53-9	All	Report the content	Scheduled date of prohibition March 31, 2027 <See Note.2> Legislation scheduled for November 2024 is delayed	(regulation under consideration,5,10)
S5	Tetrabromo-bisphenol A (TBBPA)	Annex2-43	All	Report the content	Scheduled date of prohibition March 31, 2027 <See Note.2> Transferred to EU REACH regulation and under consideration for regulation	(regulation under consideration,5)

Note2:The scheduled date of the prohibition may be changed depending on the status of laws and regulations.

<Reporting substance>

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in article unless otherwise specified)	Remarks	Reference laws and regulations
R1	Brominated flame retardants (other than PBBs,PBDEs and HBCDDs)(including polymers)	Annex2-22	Printed wiring board laminate	0.09%(900 ppm) total bromine content in laminate		37,38
			Plastic materials except above	0.1%(1000ppm)		20,39
R2	Chlorine flame retardants (exempted Short Chain Chlorinated Paraffins)(including polymers)	Annex2-23	Printed wiring board laminates	0.09%(900 ppm) total chlorine content in laminate		37,38
			Plastic materials except above	0.1%(1000ppm)		20,39
R3	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	All	0.1%(1000ppm)		6
R4	Diarsenic pentaoxide	1303-28-2	All	0.1%(1000ppm)		6
R5	Diarsenic trioxide	1327-53-3	All	0.1%(1000ppm)		6
R6	tris(2-chloroethyl) phosphate (TCEP)	115-96-8	All	0.1%(1000ppm)		6
R7	Beryllium Oxide	1304-56-9	All	0.1%(1000ppm)		36
R8	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	All	0.1%(1000ppm)		6
R9	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	All	0.1%(1000ppm)		6
R10	Specific Ceramic Fibres	Annex2-26	All	0.1%(1000ppm)		6
R11	Specific borate compounds	Annex2-27	All	0.1%(1000ppm)		6
R12	Cobalt Dichloride	7646-79-9	All	0.1%(1000ppm)		6
R13	Perchlorates	Annex2-18	All	0.0000006% (0.006ppm)		19
R14	Bis(2-methoxyethyl) ether	111-96-6	All	0.1%(1000ppm)		6
R15	4-(1,1,3,3-tetra methylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	All	0.1%(1000ppm)		6
R16	1,2-bis(2-methoxy ethoxy)ethane	112-49-2	All	0.1%(1000ppm)		6
R17	1,2-dimethoxyethane	110-71-4	All	0.1%(1000ppm)		6
R18	4-aminoazobenzene	60-09-3	All	0.1%(1000ppm)		6
R19	1,2-diethoxyethane	629-14-1	All	0.1%(1000ppm)		6
R20	N,N-dimethylformamide	68-12-2	All	0.1%(1000ppm)		6
R21	1,2-benzenedicarboxylic acid, dipentylester, branched and linear;	84777-06-0	All	0.1%(1000ppm)		6
R22	Diisopentylphthalate (DIPP)	605-50-5	All	0.1%(1000ppm)		6
R23	N-pentyl-isopentylphthalate	776297-69-9	All	0.1%(1000ppm)		6
R24	Di-n-Hexyl Phthalate (DNHP)	84-75-3	All	Intentionally added 0.1%(1000ppm)		6,18
R25	Hexahydromethylphthalic anhydride	Annex2-29	All	0.1%(1000ppm)		6
R26	Dipentylphthalate	131-18-0	All	0.1%(1000ppm)		6
R27	Nonylphenol ethoxylates	Annex2-30	All	0.1%(1000ppm)		6
R28	Trixylyl phosphate	25155-23-1	All	0.1%(1000ppm)		6
R29	C.I. Direct black 38	1937-37-7	All	0.1%(1000ppm)		6
R30	C.I. Direct red 28	573-58-0	All	0.1%(1000ppm)		6
R31	2-Imidazolidinethione	96-45-7	All	0.1%(1000ppm)		6
R32	2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)	25973-55-1	All	0.1%(1000ppm)	Except for P61 prohibited substances.	6
R33	2-ethylhexyl 10-ethyl-4,4-diethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	All	0.1%(1000ppm)		6

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in article unless otherwise specified)	Remarks	Reference laws and regulations
R34	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)	-	All	0.1%(1000ppm)		6
R35	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear [DiHP]	68515-50-4	All	0.1%(1000ppm)		6
R36	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with >=0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5, 68648-93-1	All	0.1%(1000ppm)		6
R37	1,3-propanesultone	1120-71-4	All	0.1%(1000ppm)		6
R38	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	All	0.1%(1000ppm)		6
R39	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	All	0.1%(1000ppm)		6
R40	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	All	0.1%(1000ppm)	Except for P32 prohibited substances.	6
R41	4,4'-isopropylidene diphenol (BPA)	80-05-7	All except packaging materials	Intentionally added 0.1%(1000ppm)		6,18
R42	Chrysene	218-01-9	All	0.1%(1000ppm)	Except for P32 prohibited substances.	6
R43	Benz[a]anthracene	56-55-3	All	0.1%(1000ppm)	Except for P32 prohibited substances.	6
R44	Dechlorane Plus™TM [covering any of its individual anti- and syn-isomers or any combination there of]	Annex2-35	All	0.1%(1000ppm)	Except for P60 prohibited substances.	6
R45	Benzo[ghi] perylene	191-24-2	All	0.1%(1000ppm)		6
R46	Octamethylcyclotetrasiloxane(D4)	556-67-2	All	0.1%(1000ppm)		6
R47	Decamethylcyclopentasiloxane(D5)	541-02-6	All	0.1%(1000ppm)		6
R48	Dodecamethylcyclohexasiloxane(D6)	540-97-6	All	0.1%(1000ppm)		6
R49	Disodium octaborate	12008-41-2	All	0.1%(1000ppm)		6
R50	Terphenyl hydrogenated	61788-32-7	All	0.1%(1000ppm)		6
R51	Dicyclohexyl phthalate (DCHP)	84-61-7	All	0.1%(1000ppm)		6
R52	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	All	0.1%(1000ppm)		6
R53	Benzo[k]fluoranthene	207-08-9	All	0.1%(1000ppm)	Except for P32 prohibited substances.	6
R54	Fluoranthene	206-44-0, 93951-69-0	All	0.1%(1000ppm)		6
R55	Phenanthrene	85-01-8	All	0.1%(1000ppm)		6
R56	Pyrene	129-00-0, 1718-52-1	All	0.1%(1000ppm)		6
R57	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	Annex2-36	All	0.1%(1000ppm)		6
R58	Diisohexyl phthalate	71850-09-4	All	0.1%(1000ppm)		6
R59	Perfluorobutane sulfonic acid (PFBS) and its salts	Annex2-37	All	0.1%(1000ppm)		6

	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in article unless otherwise specified)	Remarks	Reference laws and regulations
R60	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	All	0.1%(1000ppm)		6
R61	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	Annex2-38	All	0.1%(1000ppm)		6
R62	Cobalt / Cobalt compounds	-	Batteries used in computer servers and online data storage products	Report the content		21
R63	Neodymium / Neodymium compounds	-	HDDs (Hard Disk Drives) used in computer servers and online data storage products	Report the content		21
R64	4,4'-(1-methylpropyldene)bisphenol (Bisphenol B)	77-40-7	All	0.1%(1000ppm)		6
R65	Medium-chain chlorinated paraffins (MCCP)	Annex2-39	All	0.1%(1000ppm)	Also listed as a S1.	6
R66	Orthoboric acid, sodium salt	Annex2-40	All	0.1%(1000ppm)		6
R67	4-Nonylphenol, branched and linear	Annex2-41	All	0.1%(1000ppm)		6
R68	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol	119-47-1	All	0.1%(1000ppm)		6
R69	Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	Annex2-44	All	Report the content	Includes uses other than those of P65.	44
R70	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	All	0.1%(1000ppm)		6
R71	2,2',6,6'-tetrabromo-4,4'-isopropylidene diphenol	79-94-7	All	0.1%(1000ppm)		6
R72	4,4'-sulphonyldiphenol	80-09-1	All	0.1%(1000ppm)		6
R73	Barium diboron tetraoxide	13701-59-2	All	0.1%(1000ppm)		6
R74	Bis(2-ethylhexyl) tetrabromophthalate	Annex2-45	All	0.1%(1000ppm)		6
R75	Isobutyl 4-hydroxybenzoate	4247-02-3	All	0.1%(1000ppm)		6
R76	Melamine	108-78-1	All	0.1%(1000ppm)		6
R77	Perfluoroheptanoic acid and its salts	Annex2-46	All	0.1%(1000ppm)		6
R78	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	EC number: 473-390-7	All	0.1%(1000ppm)		6
R79	Cadmium/Cadmium compounds	Annex2-1	All	0.1%(1000ppm)	Except for P1 prohibited substances.	6
R80	Mercury/Mercury Compounds	Annex2-4	All	0.1%(1000ppm)	Except for P3 prohibited substances.	6
R81	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	All	0.1%(1000ppm)	Except for P6 prohibited substances.	6
R82	Bis(tributyltin) oxide (TBTO)	56-35-9	All	0.1%(1000ppm)	Except for P9 prohibited substances.	6
R83	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	Annex2-13	All	0.1%(1000ppm)	Except for P14 prohibited substances.	6
R84	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	All	0.1%(1000ppm)	Except for P21 prohibited substances.	6



	Substance	CAS No.	Application for Substances	Control limit and threshold (Contents in article unless otherwise specified)	Remarks	Reference laws and regulations
R85	Benzyl butyl phthalate (BBP)	85-68-7	All	0.1%(1000ppm)	Except for P26 prohibited substances.	6
R86	Dibutyl phthalate (DBP)	84-74-2	All	0.1%(1000ppm)	Except for P27 prohibited substances.	6
R87	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	All	0.1%(1000ppm)	Except for P28 prohibited substances.	6
R88	Diisobutyl phthalate (DIBP)	84-69-5	All	0.1%(1000ppm)	Except for P29 prohibited substances.	6
R89	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	Annex2-25	All	0.1%(1000ppm)	Except for P31 prohibited substances.	6
R90	bis(4-chlorophenyl) sulphone(BPFE)	80-07-9	All	0.1%(1000ppm)		6
R91	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide(DPTPO)	75980-60-8	All	0.1%(1000ppm)		6
R92	2,4,6-tri-tert-butylphenol	732-26-3	All	0.1%(1000ppm)	Except for P64 prohibited substances.	6
R93	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	All	0.1%(1000ppm)		6
R94	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	All	0.1%(1000ppm)		6
R95	Bumetizole (UV-326)	3896-11-5	All	0.1%(1000ppm)		6
R96	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Annex2-50	All	0.1%(1000ppm)		6
R97	Organohalogen flame retardant	Annex2-22 Annex2-23	Plastic outside enclosures for indoor electrical products	Intentionally added 0.1%(1000ppm)		47
R98	Bis( $\alpha,\alpha$ -dimethylbenzyl) peroxide	80-43-3	All	0.1%(1000ppm)		6
R99	Diisooctyl phthalate (DIOP)	27554-26-3	All	0.1%(1000ppm)		48
R100	Colecalciferol	67-97-0	All	0.1%(1000ppm)		48
R101	Triphenyl phosphate	115-86-6	All	0.1%(1000ppm)		6
R102	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	All	0.1%(1000ppm)		6
R103	Perfluamine	338-83-0	All	0.1%(1000ppm)		6
R104	Octamethyltrisiloxane	107-51-7	All	0.1%(1000ppm)		6
R105	O,O,O-triphenyl phosphorothioate	597-82-0	All	0.1%(1000ppm)		6
R106	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	All	0.1%(1000ppm)		6

		Revision date: 02 Feb 2025								
Classification	Exemptions	Expiration								
		Category 1-7,10	Category 8,9			Category 11				
			medical devices and monitoring and control instruments	in vitro diagnostic medical devices	industrial monitoring and control instruments					
1(f)- I	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg	2027.2.24								
1(f)- II	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): For special purposes: 5 mg	2025.2.24 Expired								
2(b)(3)	Mercury in other fluorescent lamps not exceeding (per lamp):Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 10 mg	2025.2.24 Expired								
2(b)(4)- I	Mercury in other fluorescent lamps not exceeding (per lamp): Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Requested for Renewal (Former Date 2025.2.24 )								
2(b)(4)- II	Mercury in other fluorescent lamps not exceeding (per lamp): Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	2027.2.24								
2(b)(4)- III	Mercury in other fluorescent lamps not exceeding (per lamp): Emergency lamps: 15 mg	2027.2.24								
3(a)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp): Short length (<= 500 mm): 3,5 mg	2025.2.24 Expired								
3(b)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp): Medium length (> 500 mm and <= 1,500 mm): 5 mg									
3(c)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):Long length (> 1,500 mm): 13 mg									
4(a)- I	Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral output to be in the ultraviolet spectrum: up to 15 mg mercury may be used per lamp	2027.2.24								
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 80: P <= 105 W: 16 mg may be used per burner	2027.2.24								
4(c)-I	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): P <= 155 W:20mg	2027.2.24								
4(c)-II	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): 155 W < P <= 405 W: 25 mg									
4(c)-III	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): P> 405 W: 25 mg									
4(e)	Mercury in metal halide lamps (MH)	2027.2.24								
4(f)- I	Mercury in other discharge lamps for special purposes not specifically mentioned	Requested for Renewal (Former Date 2025.2.24 )								
4(f)- II	Mercury in high pressure mercury vapour lamps used in projectors where an output >= 2000 lumen ANSI is required	2027.2.24								
4(f)- III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	2027.2.24								
4(f)-IV	Mercury in lamps emitting light in the ultraviolet spectrum	2027.2.24								
5(a)	Lead in glass of cathode ray tubes				2024.7.21 Expired	2024.7.21 Expired				
5(b)	Lead in fluorescent tube glass not to exceeding 0.2 % by weight	Requested for Renewal (Former Date 2016.7.21)			2024.7.21 Expired	2024.7.21 Expired				
6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight		Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)				
6(a)- I	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	Requested for Renewal (Former Date 2021.7.21)								
6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight						Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)
6(b)- I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Requested for Renewal (Former Date 2021.7.21)								
6(b)- II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Requested for Renewal (Former Date 2021.5.18)								
6(c)	Copper alloy containing up to 4 % lead by weight	Requested for Renewal (Former Date 2021.7.21)					Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	Requested for Renewal (Former Date 2021.7.21) (excluding applications covered by point 24 of this Annex)	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)				
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications					2024.7.21 Expired	2024.7.21 Expired			
7(c)-I	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	Requested for Renewal (Former Date 2021.7.21) (except applications covered under point 34)	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)				
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)				
7(c) IV	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors					2024.7.21 Expired	2024.7.21 Expired			
8(b)	Cadmium and its compounds in electrical contacts		Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)				

Classification	Exemptions	Expiration				
		Category 1-7,10	Category 8,9			Category 11
		medical devices and monitoring and control instruments	in vitro diagnostic medical devices	industrial monitoring and control instruments		
8(b)-I	Cadmium and its compounds in electrical contacts used in: •circuit breakers, •thermal sensing controls, •thermal motor protectors (excluding hermetic thermal motor protectors), •AC switches rated at: —6 A and more at 250 V AC and more, or —12 A and more at 125 V AC and more, •DC switches rated at 20 A and more at 18 V DC and more, and •switches for use at voltage supply frequency >= 200 Hz.	Requested for Renewal (Former Date 2021.7.21)				
9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75 % by weight in the cooling solution			2024.7.21 Expired		2024.7.21 Expired
9(a)-II	Up to 0.75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators: — designed to operate fully or partly with electrical heater, having an average utilised power input >=75 W at constant running conditions, — designed to fully operate with non-electrical heater	Requested for Renewal (Former Date 2021.7.21)				
9(a)-III	Up to 0,7 % hexavalent chromium by weight, used as an anticorrosion agent in the working fluid of the carbon steel sealed circuit of gas absorption heat pumps for space and water heating	2026.12.31 (category 1 only)				
9(b)	Lead in bearing shells and bushes for refrigerant containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications			2024.7.21 Expired		2024.7.21 Expired
13(a)	Lead in white glasses used for optical applications	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards		Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)
13(b)-(I)	Lead in ion coloured optical filter glass types	Requested for Renewal (Former Date 2021.7.21)				
13(b)-(II)	Cadmium in striking optical filter glass types; excluding applications falling under point 39(b) of this annex	Requested for Renewal (Former Date 2021.7.21)				
13(b)-(III)	Cadmium and lead in glazes used for reflectance standards	Requested for Renewal (Former Date 2021.7.21)				
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages		Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)
15(a)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: - a semiconductor technology node of 90 nm or larger; - a single die of 300 mm <sup>2</sup> or larger in any semiconductor technology node; - stacked die packages with die of 300 mm <sup>2</sup> or larger, or silicon interposers of 300 mm <sup>2</sup> or larger.	Requested for Renewal (Former Date 2021.7.21)				
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications				2024.7.21 Expired	2024.7.21 Expired
18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb)	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired	2024.7.21 Expired
18(b)-I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb) when used in medical phototherapy equipment	Requested for Renewal (Former Date 2021.7.21) Applies to categories 5, excluding applications covered by entry 34 of Annex IV.				
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses				2024.7.21 Expired	2024.7.21 Expired
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	Requested for Renewal (Former Date 2024.7.21)
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring				2024.7.21 Expired	2024.7.21 Expired
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	Requested for Renewal (Former Date 2021.7.21)			2024.7.21 Expired	Requested for Renewal (Former Date 2024.7.21)
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more				2024.7.21 Expired	2024.7.21 Expired
31	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)				2024.7.21 Expired	2024.7.21 Expired
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2021.7.21)		Requested for Renewal (Former Date 2024.7.21)	2024.7.21 Expired
33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers				2024.7.21 Expired	2024.7.21 Expired
34	Lead in cermet-based trimmer potentiometer elements	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)	2024.7.21 Expired
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body				2024.7.21 Expired	2024.7.21 Expired
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide				2024.7.21 Expired	2024.7.21 Expired
39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm <sup>2</sup> of display screen area)	2025.11.21	2025.11.21	2025.11.21	2025.11.21	2025.11.21
39(b)	Cadmium in downshifting semiconductor nanocrystal quantum dots directly deposited on LED semiconductor chips for use in display and projection applications (< 5 µg Cd per mm <sup>2</sup> of LED chip surface) with a maximum amount per device of 1 mg	2027.12.31	2027.12.31	2027.12.31	2027.12.31	2027.12.31

Classification	Exemptions	Expiration			
		Category 1-7,10	Category 8,9		Category 11
		medical devices and monitoring and control instruments	in vitro diagnostic medical devices	industrial monitoring and control instruments	
41	Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (1))			2024.7.21 <a href="#">Expired</a>	
42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment: with engine total displacement $\geq 15$ litres; or with engine total displacement $< 15$ litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.				Requested for Renewal (Former Date 2024.7.21) Applies to category 11, excluding applications covered by entry 6(c) of this Annex.
43	Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed: (a) 30 % by weight of the rubber for (i) gasket coatings; (ii) solid-rubber gaskets; or (iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine. (b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a). For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.				2024.7.21 <a href="#">Expired</a>
44	Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council (*), installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users				Requested for Renewal (Former Date 2024.7.21)
45	Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use.				Requested for Renewal (Former Date 2026.4.20)
46	Cadmium and lead in plastic frames containing recycled rigid PVC for electrically-electronic windows and doors (from 28 May 2026, rigid PVC recycled from electrically-electronic windows and doors can only be used for the production of new products).				2028.5.28

Classification	Exemptions	Expiration		
		Category 8,9		
		medical devices and monitoring and control instruments	in vitro diagnostic medical devices	industrial monitoring and control instruments
<b>Equipment utilising or detecting ionising radiation</b>				
1	Lead, cadmium and mercury in detectors for ionising radiation	Requested for Renewal (Former Date 2021.7.21)		Requested for Renewal (Former Date 2024.7.21)
2	Lead bearings in X-ray tubes	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
3	Lead in electromagnetic radiation amplification devices: micro-channel plate and capillary plate	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)
4	Lead in glass frit of X-ray tubes and image intensifiers and lead in glass frit binder for assembly of gas lasers and for vacuum tubes that convert electromagnetic radiation into electrons			Requested for Renewal (Former Date 2024.7.21)
5	Lead in shielding for ionising radiation	Requested for Renewal (Former Date 2021.7.21)		Requested for Renewal (Former Date 2024.7.21)
6	Lead in X-ray test objects			2024.7.21 Expired
7	Lead stearate X-ray diffraction crystals			2024.7.21 Expired
8	Radioactive cadmium isotope source for portable X-ray fluorescence spectrometers			2024.7.21 Expired
<b>Sensors, detectors and electrodes</b>				
1a	Lead and cadmium in ion selective electrodes including glass of pH electrodes	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)
1b	Lead anodes in electrochemical oxygen sensors	Requested for Renewal (Former Date 2021.7.21)		Requested for Renewal (Former Date 2024.7.21)
1c	Lead, cadmium and mercury in infra-red light detectors	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)
1d	Mercury in reference electrodes: low chloride mercury chloride, mercury sulphate and mercury oxide			2024.7.21 Expired
<b>Others</b>				
9	Cadmium in helium-cadmium lasers			Requested for Renewal (Former Date 2024.7.21)
10	Lead and cadmium in atomic absorption spectroscopy lamps			Requested for Renewal (Former Date 2024.7.21)
11	Lead in alloys as a superconductor and thermal conductor in MRI	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
12	Lead and cadmium in metallic bonds creating superconducting magnetic circuits in MRI, SQUID, NMR (Nuclear Magnetic Resonance) or FTMS (Fourier Transform Mass Spectrometer) detectors	Requested for Renewal (Former Date 2021.6.30)		Requested for Renewal (Former Date 2021.6.30)
13	Lead in counterweights	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
14	Lead in single crystal piezoelectric materials for ultrasonic transducers	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
15	Lead in solders for bonding to ultrasonic transducers	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
16	Mercury in very high accuracy capacitance and loss measurement bridges and in high frequency RF switches and relays in monitoring and control instruments not exceeding 20 mg of mercury per switch or relay			2024.7.21 Expired
17	Lead in solders in portable emergency defibrillators	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
18	Lead in solders of high performance infrared imaging modules to detect in the range 8-14 µm	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
19	Lead in Liquid crystal on silicon (LCoS) displays			2024.7.21 Expired
20	Cadmium in X-ray measurement filters	Requested for Renewal (Former Date 2021.7.21)		2024.7.21 Expired
26	Lead in the following applications that are used durably at a temperature below – 20 °C under normal operating and storage conditions: (a) solders on printed circuit boards; (b) termination coatings of electrical and electronic components and coatings of printed circuit boards; (c) solders for connecting wires and cables; (d) solders connecting transducers and sensors. Lead in solders of electrical connections to temperature measurement sensors in devices which are designed to be used periodically at temperatures below – 150 °C.	Requested for Renewal (Former Date 2021.6.30)		Requested for Renewal (Former Date 2021.6.30)
27(a) 27(b)	Lead in solders, termination coatings of electrical and electronic components and printed circuit boards, connections of electrical wires, shields and enclosed connectors, which are used in (a) magnetic fields within the sphere of 1 m radius around the isocenter of the magnet in medical magnetic resonance imaging equipment, including patient monitors designed to be used within this sphere, or (b) magnetic fields within 1 m distance from the external surfaces of cyclotron magnets, magnets for beam transport and beam direction control applied for particle therapy.	Requested for Renewal (Former Date 2020.6.30)	Requested for Renewal (Former Date 2020.6.30)	
27(c) 27(d)	(c) MRI non-integrated coils, for which the Declaration of Conformity of this model is issued for the first time before 23 September 2022, or (d) MRI devices including integrated coils, which are used in magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, for which the Declaration of Conformity is issued for the first time before 30 June 2024.	2027.6.30		

Classification	Exemptions	Expiration		
		medical devices and monitoring and control instruments	in vitro diagnostic medical devices	industrial monitoring and control instruments
29	Lead in alloys, as a superconductor or thermal conductor, used in cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in cryo-cooled equipotential bonding systems, in medical devices (category 8) and/or in industrial monitoring and control instruments.	Requested for Renewal (Former Date 2021.6.30)		
31a	Lead, cadmium, hexavalent chromium, and polybrominated diphenyl ethers (PBDE) in spare parts recovered from and used for the repair or refurbishment of medical devices, including in vitro diagnostic medical devices, or electron microscopes and their accessories, provided that the reuse takes place in auditable closed-loop business-to-business return systems and that each reuse of parts is notified to the customer	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	2024.7.21 Expired
35	Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017			2024.7.21 Expired
37	Lead in platinized platinum electrodes used for conductivity measurements where at least one of the following conditions applies: (a) wide-range measurements with a conductivity range covering more than 1 order of magnitude (e.g. range between 0,1 mS/m and 5 mS/m) in laboratory applications for unknown concentrations; (b) measurements of solutions where an accuracy of +/- 1 % of the sample range and where high corrosion resistance of the electrode are required for any of the following: (i) solutions with an acidity < pH 1; (ii) solutions with an alkalinity > pH 13; (iii) corrosive solutions containing halogen gas; (c) measurements of conductivities above 100 mS/m that must be performed with portable instruments.	2025.12.31		
39	Lead in micro-channel plates (MCPs) used in equipment where at least one of the following properties is present: (a) a compact size of the detector for electrons or ions, where the space for the detector is limited to a maximum of 3 mm/MCP (detector thickness + space for installation of the MCP), a maximum of 6 mm in total, and an alternative design yielding more space for the detector is scientifically and technically impracticable; (b) a two-dimensional spatial resolution for detecting electrons or ions, where at least one of the following applies: (i) a response time shorter than 25 ns; (ii) a sample detection area larger than 149 mm <sup>2</sup> ; (iii) a multiplication factor larger than $1.3 \times 10^3$ . (c) a response time shorter than 5 ns for detecting electrons or ions; (d) a sample detection area larger than 314 mm <sup>2</sup> for detecting electrons or ions; (e) a multiplication factor larger than $4.0 \times 10^7$ . The exemption expires on the following dates:	Requested for Renewal (Former Date 2021.7.21)	Requested for Renewal (Former Date 2023.7.21)	Requested for Renewal (Former Date 2024.7.21)
42	Mercury in electric rotating connectors used in intravascular ultrasound imaging systems capable of high operating frequency (> 50MHz) modes of operation.	2026.6.30		
44	Others; Cadmium in radiation tolerant video camera tubes designed for cameras with a centre resolution greater than 450 TV lines which are used in environments with ionising radiation exposure exceeding 100 Gy/hour and a total dose in excess of 100kGy.	2027.3.31		2027.3.31
45	Bis(2-ethylhexyl) phthalate (DEHP) in ion-selective electrodes applied in point of care analysis of ionic substances present in human body fluids and/or in dialysate fluids	2028.7.21		
46	Bis(2-ethylhexyl) phthalate (DEHP) in plastic components in MRI detector coils.		Requested for Renewal (Former Date 2024.1.1)	
47	Bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP) in spare parts recovered from and used for the repair or refurbishment of medical devices, including in vitro diagnostic medical devices, and their accessories, provided that the reuse takes place in auditable closed-loop business-to-business return systems and that each reuse of parts is notified to the customer.		2028.7.21	
48	Lead in bismuth strontium calcium copper oxide (BSCCO) superconductor cables and wires and lead in electrical connections to these wires	2027.6.30	2027.6.30	2027.6.30
49	Mercury in melt pressure transducers for capillary rheometers at temperatures over 300 °C and pressures over 1000 bar			Requested for Renewal (Former Date 2025.12.31)

## Appendix 1 Annex 2: List of specific substances for reference in substance group

Revision date

31-Mar-2025

Substance group	Specific substance	CAS No
1.Cadmium/Cadmium compounds	Cadmium	7440-43-9
	Cadmium oxide	1306-19-0
	Cadmium sulfide	1306-23-6
	Cadmium hydroxide	21041-95-2
		49663-84-5
2.Chromium (VI) Compounds	Pentazinc chromate octahydroxide	11103-86-9
	Potassium hydroxoctaoxidizincatedichromate	10294-40-3
	Barium chromate	13765-19-0
	Calcium chromate	7789-06-2
	Strontium chromate	13530-65-9
	Zinc chromate	7439-92-1
		7446-14-2
3.Lead/Lead Compounds	Lead	598-63-0
	Lead (II) sulfate	1319-46-6
	Lead (II) carbonate	6080-56-4
	Trilead bis(carbonate) dihydroxide	7446-27-7
	Lead (II) acetate, trihydrate	12069-00-0
	Lead (II) phosphate	1309-60-0
	Lead selenide	1314-41-6
	Lead (IV) oxide	1314-87-0
	Lead (II,IV) oxide	12060-00-3
	Lead (II) sulfide	15739-80-7
	Lead (II) titanate	12202-17-4
	Lead sulfate, sulphuric acid, lead salt	1072-35-1
	Lead sulphate, tribasic	7758-97-6
	Lead stearate	12656-85-8
	Lead (II) chromate	1347-94-7
	Lead chromate molybdate sulphate red	62229-08-7
	Lead sulfochromate yellow	12141-20-7
	Sulfurous acid, lead salt, dibasic	8012-00-8
	Trilead dioxide phosphonate	12065-90-6
	Pyrochlore, antimony lead yellow	20837-86-9
	Pentalead tetraoxide sulphate	68784-75-8
	Lead cyanamidate	12626-81-2
	Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped	12036-76-9
	Lead titanium zirconium oxide	69011-06-9
	Lead oxide sulfate	12578-12-0
	[Phthalato(2-)]dioxotrilead	91031-62-8
	Dioxobis(stearato) trilead	10099-74-8
	Fatty acids, C16-18, lead salts	
	Lead dinitrate	
4.Mercury/Mercury Compounds	Mercury	7439-97-6
	Mercury, chloro(cyclohexylmethyl)-	33631-63-9
	Mercury (II) chloride	7487-94-7
	Mercuric sulfate	7783-35-9
	Mercuric nitrate	10045-94-0
	Mercuric (II) oxide	21908-53-2
	Mercuric sulfide	1344-48-5
5.Tri-substituted organostannic compounds	Triphenyltin-N, N-dimethyldithiocarbamate	1803-12-9
	Triphenyltinfluoride	379-52-2
	Triphenyltinacetate	900-95-8
	Triphenyltinchloride	639-58-7
	Triphenyltinhydroxide	76-87-9
	Triphenyltin fattyacid(9-11)salt	18380-71-7
		18380-72-8
		47672-31-1
		94850-90-5
	Triphenyltinchloroacetate	7094-94-2
	Tributyltinmethacrylate	2155-70-6
	Bis(tributyltin)fumarate	6454-35-9
	Tributyltinfluoride	1983-10-4
	Bis(tributyltin)2,3-dibromosuccinate	31732-71-5
	Tributyltinacetate	56-36-0
	Tributyltinlaurate	3090-36-6
	Bis(tributyltin)phthalate	4782-29-0
	Copolymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	67772-01-4
	Tributyltinsulfamate	6517-25-5
	Bis(tributyltin)maleate	14278-57-1
	Tributyltinchloride	1461-22-9
		7342-38-3
	Tributyltin cyclopentane carbonate=mixture	85409-17-2
	Tributyltin-1, 2,3,4,4a, 4b, 5,6,10,10a-decahydro-7-isopropyl-1, 4a-dimethyl-1-phenanthrenecarboxylatemix	26239-64-5
6.Polybrominated biphenyls (PBB)	Polybrominated Biphenyls	59536-65-1
	Dibromobiphenyl	92-86-4
	2-Bromobiphenyl	2052-07-5
	3-Bromobiphenyl	2113-57-7
	4-Bromobiphenyl	92-66-0
	Tribromobiphenyl	59080-34-1
	Tetrabromobiphenyl	40088-45-7
	Pentabromobiphenyl	56307-79-0
	Hexabromobiphenyl	59080-40-9
	hexabromo-1,1'-biphenyl	36355-01-8
	Firemaster FF-1	67774-32-7
	Heptabromobiphenyl	35194-78-6
	Octabromobiphenyl	61288-13-9
	Nonabiphenyl	27753-52-2
	Decabromobiphenyl	13654-09-6
7.Polybrominated diphenyl ethers (PBDE)	Bromodiphenyl ether	101-55-3
	Dibromodiphenyl ethers	2050-47-7
	Tribromodiphenyl ether	49690-94-0
	Tetrabromodiphenyl ethers	40088-47-9
	Hexabromodiphenyl ether	36483-60-0
	Heptabromodiphenylether	68928-80-3
	Nonabromodiphenylether	63936-56-1
	Decabromodiphenyl ether	1163-19-5
	Pentabromodiphenyl ether	32534-81-9
	Octabromodiphenyl ether	32536-52-0
8.Polychlorinated biphenyls (PCBs) and specific substitutes	Polychlorinated Biphenyls (all isomers and congeners)	1336-36-3
	Monomethyl-tetrachloro-diphenyl methane	76253-60-6
	Monomethyl-dichloro-diphenyl methane	81161-70-8
	Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8
9.Polychlorinated naphthalenes	Naphthalene, chloro derivatives	70776-03-3
	1-Chloronaphthalene	90-13-1
	2-Chloronaphthalene	91-58-7

Substance group		Specific substance	CAS No
9. Polychlorinated naphthalenes		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
		Chloronaphthalene	25586-43-0
		Dichloronaphthalene	28699-88-9
		Pentachloronaphthalene	1321-64-8
		Trichloronaphthalene	1321-65-9
		Hexachloronaphthalene	1335-87-1
		Tetrachloronaphthalene	1335-88-2
		Perchloronaphthalene	2234-13-1
		1,4,6-Trichloronaphthalene	2437-54-9
		1,4,5-Trichloronaphthalene	2437-55-0
		1,4,5,8-Tetrachloronaphthalene	3432-57-3
		1,2,4,8-Tetrachloronaphthalene	6529-87-9
		1,2,4,5-Tetrachloronaphthalene	6529-88-0
		1,2,3,6,7,8-Hexachloronaphthalene	17062-87-2
		1,2,3,4-Tetrachloronaphthalene	20020-02-4
		1,3,5,8-Tetrachloronaphthalene	31604-28-1
		Heptachloronaphthalene	32241-08-0
		2,3,6,7-Tetrachloronaphthalene	34588-40-4
		1,2,4-Trichloronaphthalene	50402-51-2
		1,2,3-Trichloronaphthalene	50402-52-3
		1,3,5-Trichloronaphthalene	51570-43-5
		1,2,6-Trichloronaphthalene	51570-44-6
		1,2,4,6-Tetrachloronaphthalene	51570-45-7
		1,2,3,5-Tetrachloronaphthalene	53555-63-8
		1,3,5,7-Tetrachloronaphthalene	53555-64-9
		1,2,3,5,7-Pentachloronaphthalene	53555-65-0
		1,2,5-Trichloronaphthalene	55720-33-7
		1,2,7-Trichloronaphthalene	55720-34-8
		1,2,8-Trichloronaphthalene	55720-35-9
		1,3,6-Trichloronaphthalene	55720-36-0
		1,3,7-Trichloronaphthalene	55720-37-1
		1,3,8-Trichloronaphthalene	55720-38-2
		1,6,7-Trichloronaphthalene	55720-39-3
		2,3,6-Trichloronaphthalene	55720-40-6
		1,2,3,7-Tetrachloronaphthalene	55720-41-7
		1,3,6,7-Tetrachloronaphthalene	55720-42-8
		1,4,6,7-Tetrachloronaphthalene	55720-43-9
		1,2,3,4,5,6,7-Heptachloronaphthalene	58863-14-2
		1,2,3,4,5,6,8-Heptachloronaphthalene	58863-15-3
		1,2,3,4,5,6-Hexachloronaphthalene	58877-88-6
		1,2,4,7-Tetrachloronaphthalene	67922-21-8
		1,2,5,6-Tetrachloronaphthalene	67922-22-9
		1,2,5,7-Tetrachloronaphthalene	67922-23-0
		1,2,6,8-Tetrachloronaphthalene	67922-24-1
		1,2,3,4,5-Pentachloronaphthalene	67922-25-2
		1,2,3,4,6-Pentachloronaphthalene	67922-26-3
		1,2,3,4,5,7-Hexachloronaphthalene	67922-27-4
		1,2,4,5,6,8-Hexachloronaphthalene	80948-28-0
		1,2,4,5,7,8-Hexachloronaphthalene	103426-92-2
		1,2,3,4,5,8-Hexachloronaphthalene	103426-93-3
		1,2,3,5,7,8-Hexachloronaphthalene	103426-94-4
		1,2,3,5,6,8-Hexachloronaphthalene	103426-95-5
		1,2,3,4,6,7-Hexachloronaphthalene	103426-96-6
		1,2,3,5,6,7-Hexachloronaphthalene	103426-97-7
		1,2,3,6-Tetrachloronaphthalene	149864-78-8
		1,2,6,7-Tetrachloronaphthalene	149864-79-9
		1,2,5,8-Tetrachloronaphthalene	149864-80-2
		1,2,3,8-Tetrachloronaphthalene	149864-81-3
		1,2,7,8-Tetrachloronaphthalene	149864-82-4
		1,2,3,7,8-Pentachloronaphthalene	150205-21-3
		1,3,6,8-Tetrachloronaphthalene	150224-15-0
		1,2,3,6,7-Pentachloronaphthalene	150224-16-1
		1,2,4,6,7-Pentachloronaphthalene	150224-17-2
		1,2,3,5,6-Pentachloronaphthalene	150224-18-3
		1,2,4,5,7-Pentachloronaphthalene	150224-19-4
		1,2,4,5,6-Pentachloronaphthalene	150224-20-7
		1,2,4,7,8-Pentachloronaphthalene	150224-21-8
		1,2,4,6,8-Pentachloronaphthalene	150224-22-9
		1,2,3,6,8-Pentachloronaphthalene	150224-23-0
		1,2,3,5,8-Pentachloronaphthalene	150224-24-1
		1,2,4,5,8-Pentachloronaphthalene	150224-25-2
10. Asbestos		Asbestos	1332-21-4
		Actinolite	77536-66-4
		Amosite (Grunerite)	12172-73-5
		Anthophyllite	77536-67-5
		Chrysotile	12001-29-5
		Crocidolite	12001-28-4
		Tremolite	77536-68-6
11. Azocolourants and Azodyes which form certain aromatic amines	formed certain aromatic amines	Biphenyl-4-ylamine	92-67-1
		Benidine	92-87-5
		4-chloro-o-toluidine	95-69-2
		2-naphthylamine	91-59-8
		o-aminoazotoluene	97-56-3
		5-nitro-o-toluidine	99-55-8
		4-chloroaniline	106-47-8
		4-methoxy-m-phenylenediamine	618-05-4
		4,4'-methylenedianiline	101-77-9
		3,3'-dichlorobenzidine	91-94-1
		3,3'-dimethoxybenzidine	119-90-4
		3,3'-dimethylbenzidine	119-93-7
		4,4'-methylenedi-o-toluidine	838-88-0
		6-methoxy-m-toluidine	120-71-8
		4,4'-methylene-bis(2-chloroaniline)	101-14-4
		4,4'-oxydianiline	101-80-4
		4,4'-thiodianiline	139-65-1
		o-toluidine	95-53-4
		4-methyl-m-phenylenediamine	95-80-7



Substance group	Specific substance	CAS No
11. Azocolourants and Azodyes which form certain aromatic amines	2,4,5-trimethylaniline	137-17-7
	o-anisidine	90-04-0
	4-amino azobenzene	60-09-3
	C.I. Acid Black 29	12217-14-0
	C.I. Acid Black 94, C.I.30336	6358-80-1
	C.I. Acid Black 131	12219-01-1
	C.I. Acid Black 132	12219-02-2
	C.I. Acid Black 209	72827-68-0
	C.I. Acid Black 232, C.I.30334	
	C.I. Acid Brown 415	97199-27-4
	C.I. Acid Orange 45, C.I.22195	2429-80-3
	C.I. Acid Red 4, C.I.14710	5858-39-9
	C.I. Acid Red 5, C.I.14905	5858-63-9
	C.I. Acid Red 24, C.I.16140	5858-30-0
	C.I. Acid Red 35, C.I.18065	6441-93-6
	C.I. Acid Red 73, C.I.27290	5413-75-2
	C.I. Acid Red 85, C.I.22245	3557-65-5
	C.I. Acid Red 104, C.I.26420	8006-06-2
	C.I. Acid Red 114, C.I.23635	6459-94-5
	C.I. Acid Red 115, C.I.27200	8005-61-6
	C.I. Acid Red 116, C.I.26660	6245-62-1
	C.I. Acid Red 119-1	80080-55-4
	C.I. Acid Red 128, C.I.24125	6548-30-7
	C.I. Acid Red 148, C.I.26665	6300-53-4
	C.I. Acid Red 150, C.I.27190	6226-78-4
	C.I. Acid Red 158, C.I.20530	8004-55-5
	C.I. Acid Red 167	61901-41-5
	C.I. Acid Red 264, C.I.18133	6505-96-0
	C.I. Acid Red 265, C.I.18129	6358-43-6
	C.I. Acid Red 420	
	C.I. Acid Violet 12, C.I.18075	6625-46-3
	C.I. Basic Brown 4, C.I.21010	6421-66-9
	C.I. Basic Red 42	12221-66-8
	C.I. Basic Red 76, C.I.12245	68391-30-0
	C.I. Basic Red 111, C.I.284240	118658-98-3
	C.I. Basic Red 114	
	C.I. Basic Yellow 82	71872-38-3
	C.I. Basic Yellow 103	
	C.I. Direct Black 4, C.I.30245	2429-83-6
	C.I. Direct Black 29, C.I.22580	3626-23-1
	C.I. Direct Black 38, C.I.20235	1937-37-7
	C.I. Direct Black 154, C.I.30385	37372-50-2
	C.I. Direct Blue 1, C.I.24410	2610-05-1
	C.I. Direct Blue 2, C.I.22590	2429-73-4
	C.I. Direct Blue 3, C.I.23705	2429-72-3
	C.I. Direct Blue 6, C.I.22610	2602-46-2
	C.I. Direct Blue 8, C.I.24140	2429-71-2
	C.I. Direct Blue 9, C.I.24155	6428-98-4
	C.I. Direct Blue 10, C.I.24340	4198-19-0
	C.I. Direct Blue 14, C.I.23850	72-57-1
	C.I. Direct Blue 15, C.I.24400	2429-74-5
	C.I. Direct Blue 21, C.I.23710	6420-09-3
	C.I. Direct Blue 22, C.I.24280	2586-57-4
	C.I. Direct Blue 25, C.I.23790	2150-54-1
	C.I. Direct Blue 35, C.I.24145	6473-33-2
	C.I. Direct Blue 151, C.I.24175	110735-25-6
	C.I. Direct Blue 160	12222-02-5
	C.I. Direct Blue 173	12235-72-2
	C.I. Direct Blue 192	71838-51-2
	C.I. Direct Blue 215, C.I.24415	6771-80-8
	C.I. Direct Blue 295, C.I.23820	6420-22-0
	C.I. Direct Blue 306, C.I.24203	
	C.I. Direct Brown 1, C.I.30045	3811-71-0
	C.I. Direct Brown 1-2, C.I.30110	2586-58-5
	C.I. Direct Brown 2, C.I.22311	2429-82-5
	C.I. Direct Brown 6, C.I.30140	2893-80-3
	C.I. Direct Brown 25, C.I.36030	33363-87-0
	C.I. Direct Brown 27, C.I.31725	6360-29-8
	C.I. Direct Brown 31, C.I.35660	2429-81-4
	C.I. Direct Brown 33, C.I.35520	1324-87-4
	C.I. Direct Brown 51, C.I.31710	4623-91-0
	C.I. Direct Brown 58, C.I.23345	3476-90-2
	C.I. Direct Brown 74, C.I.36300	8014-91-3
	C.I. Direct Brown 79, C.I.30050	6483-77-8
	C.I. Direct Brown 95, C.I.30145	16071-86-6
	C.I. Direct Brown 101, C.I.31740	3626-29-7
	C.I. Direct Brown 154, C.I.30120	6360-54-9
	C.I. Direct Brown 222, C.I.30368	64743-15-3
	C.I. Direct Brown 223	76930-14-8
	C.I. Direct Green 1, C.I.30280	3626-28-6
	C.I. Direct Green 6, C.I.30295	4335-09-5
	C.I. Direct Green 8, C.I.30315	5422-17-3
	C.I. Direct Green 8-1	76012-70-9
	C.I. Direct Green 85, C.I.30387	72390-60-4
	C.I. Direct Orange 1, C.I.22370	54579-28-1
	C.I. Direct Orange 6	6637-88-3
	C.I. Direct Orange 7, C.I.23380	2868-76-0
	C.I. Direct Orange 8, C.I.22130	2429-79-0
	C.I. Direct Orange 10, C.I.23370	6405-94-3
	C.I. Direct Orange 108, C.I.29173	6358-79-8
	C.I. Direct Red 1, C.I.22310	2429-84-7
	C.I. Direct Red 2, C.I.23500	982-59-5
	C.I. Direct Red 7, C.I.24100	3808-75-9
	C.I. Direct Red 10, C.I.22145	2429-70-1
	C.I. Direct Red 13, C.I.22155	1937-35-5
	C.I. Direct Red 17, C.I.22150	2769-07-5
	C.I. Direct Red 21, C.I.23560	6406-01-5
	C.I. Direct Red 22, C.I.23565	6408-80-2
	C.I. Direct Red 24, C.I.29185	6420-44-6
	C.I. Direct Red 26, C.I.29190	3687-80-7
	C.I. Direct Red 28, C.I.22120	573-58-0
	C.I. Direct Red 37, C.I.22240	3530-19-6
	C.I. Direct Red 39, C.I.23630	6368-29-8
	C.I. Direct Red 44, C.I.22500	2302-97-8
	C.I. Direct Red 46, C.I.23050	6548-29-4
	C.I. Direct Red 62, C.I.29175	6420-43-5

Substance group		Specific substance	CAS No
11. Azocolourants and Azodyes which form certain aromatic amines	formed certain aromatic amines	C.I. Direct Red 67, C.I.23505	6598-56-7
		C.I. Direct Red 72, C.I.29200	8005-64-9
		C.I. Direct Violet 1, C.I.22570	2586-60-9
		C.I. Direct Violet 4, C.I.22555	6472-95-3
		C.I. Direct Violet 12, C.I.22550	2429-75-6
		C.I. Direct Violet 13, C.I.2480	13478-92-7
		C.I. Direct Violet 21, C.I.23520	13478-92-7
		C.I. Direct Violet 22, C.I.22480	6426-67-1
		C.I. Direct Yellow 1, C.I.22250	6472-91-9
		C.I. Direct Yellow 24, C.I.22010	6486-29-9
		C.I. Direct Yellow 48, C.I.23660	6459-97-8
		C.I. Disperse Orange 60	12270-44-9
		C.I. Disperse Orange 149	151126-94-2
		C.I. Disperse Red 151, C.I.26130	61968-47-6
		C.I. Disperse Red 221	64426-35-3
		C.I. Disperse Yellow 7, C.I.26090	6300-37-4
		C.I. Disperse Yellow 23, C.I.26070	6250-23-3
		C.I. Disperse Yellow 56	54077-16-6
		C.I. Disperse Yellow 218	83929-90-2
12. Ozone Depleting Substances (ODSs)		Trichlorofluoromethane	75-69-4
		Dichlorodifluoromethane	75-71-8
		Chlorotrifluoromethane	75-72-9
		Pentachlorofluoroethane	354-56-3
		Tetrachlorodifluoroethane	76-12-0
		1,1,2,2-Tetrachloro-1,2-difluoroethane	76-12-0
		1,1,1,2-Tetrachloro-2,2-difluoroethane	76-11-9
		Trichlorotrifluoroethane	76-13-1
		1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1
		1,1,1-Trichloro-2,2,2-trifluoroethane	354-58-5
		Dichlorotetrafluoroethane	76-14-2
		Monochloropentafluoroethane	76-15-3
		Heptachlorofluoropropane	422-78-6
		1,1,1,2,2,3,3-Heptachloro-3-fluoropropane	135401-87-5
		1,1,1,2,3,3,3-Heptachloro-2-fluoropropane	422-78-6
		Hexachlorodifluoropropane	422-81-1
		Pentachlorotrifluoropropane	3182-26-1
		Tetrachlorotetrafluoropropane	2354-06-5
		1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane	134237-31-3
		1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane	29255-31-0
		Trichloropentafluoropropane	2268-46-4
		1,2,2-Trichloropentafluoropropane	1599-41-3
		1,2,3-Trichloropentafluoropropane	1599-41-3
		1,1,2-Trichloropentafluoropropane	76-17-5
		1,1,3-Trichloropentafluoropropane	-
		1,1,1-Trichloropentafluoropropane	-
		Dichlorohexafluoropropane	4259-43-2
		Chloroheptafluoropropane	661-97-2
		Bromochloromethane	422-86-6
		Dibromodifluoromethane	74-97-5
		Bromotrifluoromethane	75-61-6
		Dibromotetrafluoroethane	353-59-3
		Tetrachloromethane	75-63-8
		1,1,1-Trichloroethane	124-73-2
		Bromomethane	56-23-5
		Bromoethane	71-55-6
		Trifluoriodomethane	74-83-9
		Chloromethane	74-96-4
		Dibromofluoromethane	2314-97-8
		Bromodifluoromethane	74-87-3
		Bromofluoromethane	1868-53-7
		Tetrabromodifluoroethane	1511-62-2
		Tribromodifluoroethane	373-52-4
		Dibromodifluoroethane	306-80-9
		Bromotrifluoroethane	-
		Dibromofluoroethane	354-04-1
		Bromofluoroethane	124-72-1
		Tribromofluoroethane	75-82-1
		Dibromodifluoroethane	421-06-7
		Bromotrifluoroethane	358-97-4
		Dibromofluoroethane	420-47-3
		Bromofluoroethane	762-49-2
		Hexabromofluoropropane	-
		Pentabromodifluoropropane	-
		Tetrabromotrifluoropropane	-
		Tribromotetrafluoropropane	-
		Dibromopentafluoropropane	431-78-7
		Bromohexafluoropropane	2252-78-0
		Pentabromofluoropropane	-
		Tetrabromodifluoropropane	-
		Tribromotrifluoropropane	-
		Dibromotetrafluoropropane	-
		Bromopentafluoropropane	460-88-8
		Tetrabromofluoropropane	-
		Tribromodifluoropropane	70192-80-2
		Dibromotrifluoropropane	431-21-0
		Bromotetrafluoropropane	679-84-5
		Tribromofluoropropane	75372-14-4
		Dibromodifluoropropane	460-25-3
		Bromotrifluoropropane	421-46-5
		Dibromofluoropropane	61584-26-0
		Bromodifluoropropane	1871-72-3
		Bromofluoropropane	75-43-4
		Dichlorodifluoromethane	75-45-6
		Chlorodifluoromethane	693-70-4
		Chlorofluoromethane	134237-32-4
		Tetrachlorofluoroethane	354-14-3
		1,1,2,2-Tetrachloro-1-fluoroethane	354-11-0
		1,1,1,2-Tetrachloro-2-fluoroethane	41834-16-6
		Trichlorodifluoroethane	354-21-2
		1,2,2-Trichloro-1,1-difluoroethane	354-15-4
		1,1,2-Trichloro-1,2-difluoroethane	354-12-1
		1,1,1-Trichloro-2,2-difluoroethane	

Substance group	Specific substance	CAS No
12.Ozone Depleting Substances (ODSs)	Dichlorotrifluoroethane	34077-87-7
	1,1-Dichloro-2,2,2-trifluoroethane	306-83-2
	1,2-Dichloro-1,1,2-trifluoroethane	354-23-4
		90454-18-5
	1,1-Dichloro-1,2,2-trifluoroethane	812-04-4
	Chlorotetrafluoroethane	63938-10-3
	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0
	1-chloro-1,1,2,2-tetrafluoroethane	354-25-6
	Trichlorofluoroethane	27154-33-2;
		(134237-34-6)
	1,1,2-Trichloro-2-fluoroethane	359-28-4
	1,1,2-Trichloro-1-fluoroethane	811-95-0
	1,1,1-Trichloro-2-fluoroethane	2366-36-1
	Dichlorodifluoroethane	25915-78-0
	1,2-Dichloro-1,2-difluoroethane	431-06-1
	1,1-Dichloro-2,2-difluoroethane	471-43-2
	1,2-Dichloro-1,1-difluoroethane	1649-08-7
	1,1-Dichloro-1,2-difluoroethane	1842-05-3
	Chlorotrifluoroethane	1330-45-6
		431-07-2
	1-Chloro-1,2,2-trifluoroethane	1330-45-6
	2-Chloro-1,1,1-trifluoroethane	75-88-7
	1-Chloro-1,1,2-trifluoroethane	421-04-5
	Dichlorofluoroethane	1717-00-6;
		(25167-88-8)
	1,2-Dichloro-1-fluoroethane	430-57-9
	1,1-Dichloro-2-fluoroethane	430-53-5
	1,1-Dichloro-1-fluoroethane	1717-00-6
	Chlorodifluoroethane	25497-29-4
	2-Chloro-1,1-Difluoroethane	338-65-8
	1-Chloro-1,1-difluoroethane	75-68-3
	1-Chloro-1,2-difluoroethane	338-64-7
	Chlorofluoroethane	110587-14-9
	1-Chloro-2-fluoroethane	762-50-5
	1-Chloro-1-fluoroethane	1615-75-4
	Hexachlorofluoropropane	134237-35-7
		29470-94-8
	1,1,1,2,2,3-Hexachloro-3-fluoropropane	422-26-4
	Pentachlorodifluoropropane	134237-36-8
	1,1,1,3,3-pentachloro-2,2-difluoropropane	422-49-1
	1,2,2,3,3-pentachloro-1,1-difluoropropane	422-30-0
	Tetrachlorotrifluoropropane	134237-37-9
	1,1,3,3-Tetrachloro-1,2,2-trifluoropropane	422-52-6
	1,1,1,3,3-Tetrachloro-2,2,3-trifluoropropane	422-50-4
	Trichlorotetrafluoropropane	134237-38-0
	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane	422-54-8
	1,1,3-Trichloro-1,2,2,3-tetrafluoropropane	422-53-7
	1,1,1-Trichloro-2,2,3,3-tetrafluoropropane	422-51-5
	Dichloropentafluoropropane	127564-92-5
	2,2-Dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9
	2,3-Dichloro-1,1,1,2,3-pentafluoropropane	422-48-0
	1,2-Dichloro-1,1,2,3,3-pentafluoropropane	422-44-6
	3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0
	1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1
	1,1-Dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9
	1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7
	1,3-Dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1
	1,1-Dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2
	Chlorohexafluoropropane	134308-72-8
	2-Chloro-1,1,1,3,3,3-hexafluoro-propane	431-87-8
	Pentachlorofluoropropane	134190-48-0
	1,1,1,2,3-pentachloro-2-fluoro-propane	421-94-3
	Tetrachlorodifluoropropane	134237-39-1
	1,1,1,3,3-Tetrachloro-3,3-difluoropropane	460-89-9
	Trichlorotrifluoropropane	134237-40-4
	1,1,1-Trichloro-3,3,3-trifluoropropane	7125-83-9
	Dichlorotetrafluoropropane	127564-83-4
	1,2-Dichloro-1,2,3,3-tetrafluoropropane	425-94-5
	Chloropentafluoropropane	134237-41-5
	1-Chloro-1,1,3,3,3-pentafluoropropane	460-92-4
	Tetrachlorofluoropropane	134190-49-1
	1,1,2,3-Tetrachloro-1-fluoropropane	666-27-3
	Trichlorodifluoropropane	134237-42-6
	1,3,3-Trichloro-1,1-difluoropropane	460-63-9
	Dichlorotrifluoropropane	134237-43-7
	1,1-Dichloro-1,2,2-trifluoropropane	7125-99-7
	2,3-Dichloro-1,1,1-trifluoropropane	338-75-0
	3,3-Dichloro-1,1,1-trifluoropropane	460-69-5
	Chlorotetrafluoropropane	134190-50-4
	3-Chloro-1,1,2,2-tetrafluoropropane	679-85-6
	1-Chloro-1,1,2,2-tetrafluoropropane	421-75-0
	Trichlorofluoropropane	134190-51-5
	1,1,3-Trichloro-1-fluoropropane	818-99-5
	1,1,2-Trichloro-1-fluoropropane	421-41-0
	Dichlorodifluoropropane	134190-52-6
	1,3-Dichloro-1,1-difluoropropane	819-00-1
	Chlorotrifluoropropane	134237-44-8
	3-Chloro-1,1,1-trifluoropropane	460-35-5
	Dichlorofluoropropane	134237-45-9
	1,1-Dichloro-1-fluoropropane	7799-56-6
	1,2-Dichloro-2-fluoropropane	420-97-3
	Chlorodifluoropropane	134190-53-7
	1-Chloro-2,2-difluoropropane	420-99-5
	2-Chloro-1,3-difluoropropane	102738-79-4
	1-Chloro-1,1-difluoropropane	421-02-3
	Chlorofluoropropane	134190-54-8
	2-Chloro-2-fluoropropane	420-44-0
	1-Chloro-1-fluoropropane	430-55-7
13.Alkanes, C10-13, chloro (SCCP)	Alkanes, C10-13, chloro	85535-84-8
	Alkanes, C10-12, chloro	108171-26-2
	Alkanes, C12-13, chloro	71011-12-6
	Alkanes, chloro	61788-76-9
14.Perfluorooctane sulfonates (PFOS)	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
	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7

Substance group	Specific substance	CAS No
15.Dibutyltin(DBT)compounds	Dibutyltin oxide	818-08-6
	Dibutyltin diacetate	1067-33-0
	Dibutyltin dilaurate	77-58-7
	Dibutyltin maleate	78-04-6
16.Radioactive substances	Uranium-238	7440-61-1
	Radon	10043-92-2
	Americium-241	14596-10-2
	Thorium-232	7440-29-1
	Cesium-137	10045-97-3
	Strontium-90	10098-97-2
17.Fluorinated Greenhouse Gases (PFC, SF6, HFC)	Tetrafluoromethane	75-73-0
	Hexafluoroethane	76-16-4
	Octafluoropropane	76-19-7
	Decafluorobutane	355-25-9
	Dodecafluoropentane	678-26-2
	Tetradecafluorohexane	355-42-0
	Octafluorocyclobutane	115-25-3
	Sulfur Hexafluoride	2551-62-4
	Trifluoromethane	75-46-7
	Difluoromethane	75-10-5
	Methyl fluoride	593-53-3
	2H,3H-Decafluoropentane	13949-42-8
	Pentafluoroethane	354-33-6
	1,1,2,2-Tetrafluoroethane	359-35-3
	1,1,1,2-Tetrafluoroethane	811-97-2
	1,1-Difluoroethane	75-37-6
	1,1,2-Trifluoroethane	430-66-0
	1,1,1-Trifluoroethane	420-46-2
	2H-Heptafluoropropane	431-89-0
	1,1,1,2,2,3-Hexafluoro-propane	677-56-5
	1,1,1,2,3,3-Hexafluoropropane	431-63-0
	1,1,1,2,3,3-Hexafluoropropane	690-39-1
	1,1,2,2,3-Pentafluoropropane	679-86-7
	1,1,1,3,3-Pentafluoropropane	460-73-1
	1,1,1,3,3-Pentafluorobutane	406-58-6
18.Perchlorates	Lithium Perchlorate	7791-03-9
	Ammonium perchlorate	7790-98-9
	Barium perchlorate	13465-95-7
	Lead perchlorate	13637-76-8
	Magnesium Perchlorate	10034-81-8
	Perchloric acid, cobalt (2+) salt	13455-31-7
	Perchloric acid, mercury(2+) salt	7616-83-3
	Perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1
	Nickel perchlorate	13637-71-3
	Potassium Perchlorate	7778-74-7
	Sodium Perchlorate	7601-89-0
	Thallium(3+) perchlorate	15596-83-5
19.Dioctyltin (DOT) compounds	Dioctyl Tin Oxide	870-08-6
	Dioctyltin dilaurate	3648-18-8
21.Pthalates, Selected Group 2 (DIDP, DINP, DNOP)	Diisodecyl phthalate (DIDP)	26761-40-0
		68515-49-1
	Diisononyl phthalate (DINP)	28553-12-0
		68515-48-0
	Di-n-octyl phthalate (DNOP)	117-84-0
22.Brominated flame retardants(other than PBBS,PBDEs and HBCDDs) (including polymers)	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	-
	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	-
	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	-
	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls] in combination with antimony compounds]	-
	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	-
	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]	-
	Poly(2,6-dibromo-phenylene oxide)	69882-11-7
		68055-66-5
	1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1
	TBBA, unspecified	30496-13-0
	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
	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
	Tetrabromo-bisphenol S	39635-79-5
	TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
	2,4-Dibromo-phenol	615-58-7
	2,4,6-tribromo-phenol	118-79-6
	Pentabromo-phenol	608-71-9
	2,4,6-Tribromo-phenyl-allyl-ether	3278-89-5
	Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
	Bis(methyl)tetrabromo-phthalate	55481-60-2
	Bis(2-ethylhexyl)tetrabromo-phthalate	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
	Tris(tribromo-neopentyl) phosphate	19186-97-1

Substance group	Specific substance	CAS No
22.Brominated flame retardants(other than PBBs,PBDEs and HBCDDs)	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
	Tribramo-bisphenyl-maleinimide	59789-51-4
	Tetrabromo-cyclo-octane	31454-48-5
	1,2-Dibromo-4-(1,2 dibromo-ethyl)-cyclo-hexane	3322-93-8
	Tetrabromophthalic acid Na salt	25357-79-3
	Tetrabromo phthalic anhydride	532-79-1
	Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	155613-93-7
	Tetrakis(2-chloroethyl)dichloroisopentylidiphosphate	38051-10-4
	Tris(1-chloro-2-propyl)phosphate	13674-84-5
23.Chlorine flame retardants(exempted Short Chain Chlorinated Paraffins) (including polymers)	Tris(2,3-dichloro-1-propyl)phosphate	66108-37-0
	Tris(1,3-dichloro-2-propyl)phosphate	13674-87-8
	Chrysene (CHR)	218-01-9
	Benzo[a]anthracen (BaA)	56-55-3
24.Polycyclic Aromatic Hydrocarbon(PAH)	Benzo[b]fluoranthene (BbF)	205-99-2
	Benzo[k]fluoranthene (BkF)	207-08-9
	Benzo[a]pyrene (BaP)	50-32-8
	Dibenzo[a,h]anthracene (DBA)	53-70-3
	Benzo[j]fluoranthene (BjF)	205-82-3
	Benzo[e]pyrene (BeP)	192-97-2
	Hexabromocyclododecane (HBCDD)	25637-99-4
	1,2,5,6,9,10-hexabromocyclododecane	3194-55-6
	Diastereoisomers	134237-51-7
25.Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	α-hexabromocyclododecane	134237-51-7
	β-hexabromocyclododecane	134237-50-6
	γ-hexabromocyclododecane	134237-52-8
	Aluminosilicate	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:
	Refractory Ceramic Fibres (RCF)	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 (µm)
		c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight
	Zirconia	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:
	Aluminosilicate, Refractory Ceramic Fibres (Zr-RCF)	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 (µm)
		c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight
26.Specific Ceramic Fibres	Boric acid	10043-35-3
	Borate	11113-50-1
	(Disodium tetraborate)	12179-04-3
		1303-96-4
		12267-73-1
		1303-86-2
27.Specific borate compounds	Disodium tetraborate, anhydrous	12179-04-3
	Disodium tetraborate, pentahydrate	1303-96-4
	Disodium tetraborate, decahydrate	12267-73-1
	Tetraboron disodium heptaoxide, hydrate	1303-86-2
29.Hexahydromethylphthalic anhydride	Hexahydromethylphthalic anhydride	25550-51-0
	Hexahydro-4-methylphthalic anhydride	19438-60-9
	Hexahydro-1-methylphthalic anhydride	48122-14-1
	Hexahydro-3-methylphthalic anhydride	57110-29-9
30.Nonylphenol ethoxylates	Ethanol, 2-(4-nonylphenoxy)-	104-35-8
	Isononylphenol ethoxylate	87205-87-1
	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0
	4-tert-Nonylphenol diethoxylate	156609-10-8
	Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-	26027-38-3
	Ethanol, 2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]-	7311-27-5
	Ethanol, 2-[2-[2-(4-nonylphenoxy)ethoxy]-	20427-84-3
	3,6,9,12,15-Pentaoxaheptadecan-1-ol,17-(4-nonylphenoxy)-	34166-38-6
	3,6,9,12,15,18-Hexaoxaicosan-1-ol, 20-(4-nonylphenoxy)-	27942-17-4
	3,6,9,12,15,18,21,24-Octaoxaheptacosan-1-ol,26-(4-nonylphenoxy)-	14409-72-4
	Pentadecafluorooctanoic acid (PFOA)	335-67-1
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Sodium pentadecafluorooctanoate	335-95-5
	Potassium pentadecafluorooctanoate	2395-00-8
31.Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	Silver pentadecafluorooctanoate	335-93-3
	Pentadecafluorooctanoyl fluoride	335-66-0
	Methyl pentadecafluorooctanoate	376-27-2
	Ethyl pentadecafluorooctanoate	3108-24-5
	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecan-1-ol	678-39-7
	8:2 Fluorotelomer methacrylate	1996-88-9
	Nickel	7440-02-0
	Nickel (II) oxide	1313-99-1
	Nickel (II) chloride	7718-54-9
	Nickel (II) chloride, hexahydrate	7791-20-0
	Nickel(II) sulfate	7786-81-4
	Nickel(II) sulfate, hexahydrate	10101-97-0
	Nickel(II) sulfate, heptahydrate	10101-98-1
	Antimony nickel titanium oxide yellow	8007-18-9
33.Nickel/Nickel Compounds	Nickel niobium titanium yellow rutile	68611-43-8
	Cobalt titanate green spinel	68186-85-6
	Perfluorohexane-1-sulphonic acid	355-46-4
	ammonium perfluorohexane-1-sulphonate	68259-08-5
	potassium perfluorohexane-1-sulphonate	3871-99-6
	tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0
	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]-	928049-42-7
	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)	70136-72-0
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt	72033-41-1
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	1000597-52-3
	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	108427-54-9
	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-55-0
	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate	
34.Perfluorohexane-1-sulphonic acid and its salts		

Substance group	Specific substance	CAS No
34.Perfluorohexane-1-sulphonic acid and its salts	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, compd. with pyrrolidine (1:1)	1187817-57-7
	Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)	189274-31-5
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-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-tridecafluoro-1-hexanesulfonate (1:1)	213740-81-9
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, gallium salt	341035-71-0
	Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	341548-85-4
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, scandium(3+) salt (3:1)	350836-93-0
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, neodymium(3+) salt (3:1)	41184-65-0
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, yttrium(3+) salt (3:1)	41242-12-0
	Sulfonium, (thiodi-4,1-phenylene)bis(diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)	421555-73-9
	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid	421555-74-0
	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	425670-70-8
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, lithium salt (1:1)	55120-77-9
	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1310480-24-0
	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6-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-tridecafluoro-1-hexanesulfonate (1:1)	1310480-28-4
	Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6-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-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)	1329995-69-8
	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	144116-10-9
	Quinolinium, 1-(carboxymethyl)-4-[2-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1462414-59-0
	Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7
	Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5
	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-tridecafluoro-1-hexanesulfonate (1:1)	911027-68-4
	Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	910606-39-2
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, sodium salt	82382-12-5
	Iodonium, bis[[1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)	866621-50-3
	Sulfonic acids, C6-12-alkane, perfluoro	93572-72-6
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, lithium salt (1:1)	55120-77-9
	Sulfonic acids, C6-12-alkane, perfluoro, potassium salts	68391-09-3
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, sodium salt (1:1)	82382-12-5
	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1000597-52-3
	1-Butanaminium, N,N,N-tributyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	108427-54-9
	Ethanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	108427-55-0
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, compd. with pyrrolidine (1:1)	1187817-57-7
	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1310480-24-0
	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6-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-tridecafluoro-1-hexanesulfonate (1:1)	1310480-28-4
	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	144116-10-9
	Quinolinium, 1-(carboxymethyl)-4-[2-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1462414-59-0
	Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7
	Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	189274-31-5
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-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-tridecafluoro-1-hexanesulfonate (1:1)	213740-81-9
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, gallium salt	341035-71-0
	Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	341548-85-4
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, scandium(3+) salt (3:1)	350836-93-0
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, neodymium(3+) salt (3:1)	41184-65-0
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, yttrium(3+) salt (3:1)	41242-12-0
	Sulfonium, (thiodi-4,1-phenylene)bis(diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)	421555-73-9
	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	421555-74-0
	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	425670-70-8
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, zinc salt (2:1)	70136-72-0
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	72033-41-1
	Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)	910606-39-2
	Fatty acids, C18-unsatd., trimers, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl esters	148240-80-6
	Fatty acids, C18-unsatd., trimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters	161074-58-4

Substance group	Specific substance	CAS No
34.Perfluorohexane-1-sulphonic acid and its salts	2-Propenoic acid, 2-(methylamino)ethyl ester, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., polymers with propene	1648540-20-8
	2-Propenoic acid, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	1893-52-3
	Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters	306974-63-0
	2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-57-0
	2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6
	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1
	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester, polymer with octadecyl 2-propenoate and 2-propenoic acid	67906-71-2
	2-Propenoic acid, 2-methyl-, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl ester	67939-61-1
	Carbamic acid, N,N'-(4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl] ester	68081-83-4
	2-Propenoic acid, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl ester	68227-98-5
	2-Propenoic acid, 2-methyl-, 2-[[[5-[[[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester (9CI)	68298-74-8
	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, ethyl ester	68957-53-9
	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
	Benzenamine, 4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	147029-28-5
	β-Alanine, N-[3-(dimethylamino)propyl]-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	141607-32-1
	Benzene, 1-fluoro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	149652-30-2
	Benzene, 1-chloro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	16949-59-4
	Benzene, 1-nitro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	171561-95-8
	Thiophene, 2-[2-[(tridecafluorohexyl)sulfonyl]ethenyl]-	86525-43-1
	Furan, 2-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	86525-48-6
	Benzene, 1-methyl-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	86525-51-1
	Benzene, 1-methoxy-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	86525-52-2
	Thiophene, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	89863-48-9
	Furan, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	89863-49-0
	Benzene, 1-methyl-4-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	89863-50-3
	Thiophene, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	89863-55-8
	Furan, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	89863-56-9
	2,4-Pentanedione, 3-[1-(2-thienyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	89863-63-8
	2,4-Pentanedione, 3-[1-(2-furanyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-	89863-64-9
	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
	Hexane, 1-(ethenylsulfonyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	680187-86-4
	Poly(oxy-1,2-ethanediyl), α-[2-(methylamino)ethyl]-ω-hydroxy-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., C12-16-alkyl ethers	1648539-69-8
	Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether	306974-45-8
	1-Hexanesulfonyl bromide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	111393-39-6
	1-Hexanesulfonyl chloride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	55591-23-6
	1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	423-50-7
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N,N-dimethyl-	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
	Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-(2-oxiranylmethyl)	129813-71-4
	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,N-bis(2-methoxyethyl)-	1427176-20-2
	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
	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
	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 N-butyl-1-butanamine	1645850-46-9
	1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt (1:1)	178094-71-8
	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
	Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], potassium salts	179005-06-2
	Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl]	179005-07-3
	Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid	192662-29-6
	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with poly(Bu acrylate) and polyethylene-polypropylene glycol mono-Bu ether	222716-67-8
	1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	30295-56-8
	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
	Sulfonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediylbis[(2-oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-	306980-27-8
	1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-	34455-03-3
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	11997-13-1
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-2-propen-1-yl-	67584-48-9

Substance group	Specific substance	CAS No
34.Perfluorohexane-1-sulphonic acid and its salts	1-Hexanesulfonamide, N,N'-[phosphinocobis(oxy-2,1-ethanediyl)]bis(N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro	67939-92-8
	1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-[2-(phosphonoxy)ethyl]-	67969-65-7
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(4-hydroxybutyl)-N-methyl-	68239-74-7
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-methyl-	68259-15-4
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(phenylmethyl)-	68298-09-9
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-	68555-75-9
	Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-(hydroxyethyl), reaction products with TDI	68608-13-9
	Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene	68608-14-0
	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-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
	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-propyl-	85665-64-1
	Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)	91081-99-1
	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-, 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
	Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides- and stearyl alc.-blocked	306978-65-4
	1-Hexanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	60598-28-2
	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
	Sulfonamides, C4-8-alkane, perfluoro, N-[4,7-dimethyl-4-[[[(1-methylpropylidene)amino]oxy]-3,5-dioxo-6-aza-4-silanon-6-en-1-yl]-N-ethyl	944578-05-6
	Glycine, N-ethyl-N-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	68957-32-4
	Chromium, diaquatetrachloro[ $\mu$ -[N-ethyl-N-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]glycinato- $\kappa$ O]]- $\mu$ -hydroxybis(2-propanol)di-	68891-98-5
	1-Propanesulfonic acid, 3-[[[3-(dimethylamino)propyl][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-	38850-60-1
	Poly(oxy-1,2-ethanediyl), $\alpha$ -[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl]- $\omega$ -hydroxy-	56372-23-7
	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
	2-Propenoic acid, butyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	160336-17-4
	Siloxanes and Silicones, di-Me, Bu group- and 3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated, telomers with acrylic acid, di-Me, Me 3-mercaptopropyl siloxanes, Me acrylate, Me methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate, 2,2'-(1,2-diazenediyl)bis[2-methylpropanenitrile]-initiated	1645852-10-3
	2-Propenoic acid, polymers with lauryl acrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	1648534-82-0
	Siloxanes and Silicones, di-Me, mono-3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearyl methacrylate	306974-28-7
	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
	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-propen-1-yl)oxy]ethyl]-, bromide (1:1), polymers with Bu acrylate, Bu methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	306976-25-0
	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
	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
	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
	Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl]- $\omega$ -hydroxy-	68259-38-1
	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
	Polymer based on 67584-55-8	68555-90-8
	2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate	70776-36-2
	2-Propenoic acid, 2-methyl-, 2-[[[[5-[[[4-[[[heptafluorooctyl)sulfonyl]methylamino]butoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate, 2-[[[(heptafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[[[[2-methyl-5-[[[4-[[[methyl[(nonafluorobutyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[[2-methyl-5-[[[4-[[[methyl[(pentadecafluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[[2-methyl-5-[[[4-[[[methyl[(tridecafluorohexyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate, 2-[[[[2-methyl-5-[[[4-[[[methyl[(undecafluoropentyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl 2-methyl-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 1-octanethiol	70900-40-2





Substance group	Specific substance	CAS No
34.Perfluorohexane-1-sulphonic acid and its salts	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-chloro-1,3-butadiene, 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate	68568-77-4
	2-Propenoic acid, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediy), α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediy), 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate (9CI)	68586-13-0
	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 2-propenoate, α-(2-methyl-1-oxo-2-propen-1-yl)-ω-hydroxypoly(oxy-1,2-ethanediy), α-(2-methyl-1-oxo-2-propen-1-yl)-ω-[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediy), 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol	68586-14-1
	1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanedisulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl alc.	68649-26-3
	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 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate	68797-76-2
	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[(tridecafluoroheptyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl acrylate, polyethylene glycol acrylate Me ether and stearyl acrylate	68909-15-9
	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-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-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-	13560-89-9 135821-74-8 135821-03-3
35.Dechlorane Plus™ [covering any of its individual anti- and syn-isomers or any combination thereof]	Phenol, 4-nonyl-, phosphite	3050-88-2
	Phenol, p-isononyl-, phosphite Phenol, p-sec-nonyl-, phosphite Trisnonylphenyl phosphite	31631-13-7 106599-06-8 26523-78-4
37.Perfluorobutane sulfonic acid (PFBS) and its salts	N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate	25628-08-4
	1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid	375-73-5
	Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate	29420-49-3
	magnesium perfluorobutanesulfonate	507453-86-3
	lithium perfluorobutanesulfonate	131651-65-5
	morpholinium perfluorobutanesulfonate	503155-89-3
	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate	48259-10-9
	tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate	220689-12-3
	dimethyl(phenyl)sulfanium perfluorobutanesulfonate	220133-51-7
	1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanedisulfonate	144317-44-2
	triphenylsulfanium perfluorobutane-sulfonate	194999-85-4
	bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate	194999-85-4
38.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	Stannane, dioctylbis[(1-oxododecyl)oxy]-	3648-18-8
	Stannane, dioctyl-, bis(coco acyloxy) derivs.	91648-39-4
	dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.	-
39.Medium-chain chlorinated paraffins (MCCP)	Alkanes, C14-17, chloro	85535-85-9
	di-, tri- and tetrachlorotetradecane	-
	Tetradecane, chloro derivs.	198840-65-2
40.Orthoboric acid, sodium salt	Alkanes, C14-16, chloro	1372804-76-6
	Boric acid (H3BO3), sodium salt, hydrate	25747-83-5
	Boric acid (H3BO3), disodium salt	32454-04-2
	Trisodium orthoborate	14312-40-4
	Boric acid, sodium salt	1333-73-9
41. 4-Nonylphenol, branched and linear	Orthoboric acid, sodium salt	13840-56-7
	Boric acid (H3BO3), sodium salt (1:1)	14890-53-0
	Phenol, 4-nonyl-, branched	84852-15-3
	p-(1,1-dimethylheptyl)phenol	30784-30-6
	4-(1-Ethyl-1,4-dimethylpentyl)phenol	142731-63-3
	4-(1-Ethyl-1,3-dimethylpentyl)phenol	186825-36-5
	4-(1-ethyl-1-methylhexyl)phenol	52427-13-1
	p-isononylphenol	26543-97-5
	p-(1-methyloctyl)phenol	17404-66-9
	p-nonylphenol	104-40-5
	Phenol, nonyl-, branched	80481-04-2
	4-(3-ethylheptan-2-yl)phenol	186825-39-8
	4-(1,1,5-Trimethylhexyl)phenol	521947-27-3
	Nonylphenol	25154-52-3
	Isononylphenol	11066-49-2
	Henicosafuoroundecanoic acid	2058-94-8
	Sodium salts of Perfluorononan-1-oic acid	21049-39-8
42.Perfluorocarboxylic acids (PFCA:C9-C14),their salts and C9-C14 PFCA-related compounds	Tricosafuorododecanoic acid	307-55-1
	ammonium nonadecafluorodecanoate	3108-42-7
	Nonadecafluorodecanoic acid	335-76-2
	Perfluorononan-1-oic acid	375-95-1
	Heptacosafuorotetradecanoic acid	376-06-7
	Sodium nonadecafluorodecanoate	3830-45-3
	Ammonium salts of Perfluorononan-1-oic acid	4149-60-4
	Pentacosafuorotridecanoic acid	72629-94-8

Substance group	Specific substance	CAS No
42.Perfluorocarboxylic acids (PFCA:C9-C14), their salts and C9-C14 PFCA-related compounds	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12-docosafuoro-11-(trifluoromethyl)-	16486-96-7
	Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafuoro-	1765-48-6
	Hexacosafuoro-13-(trifluoromethyl)tetradecanoic acid	18024-09-4
	Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate	307-71-1
	Ammonium octadecafuoro-9-(trifluoromethyl)decanoate	3658-63-7
	Ammonium tricosafuorododecanoate	3793-74-6
	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12-docosafuoro-11-(trifluoromethyl)-, compd. With ethanamine (1:1)	68015-87-2
	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafuorodecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate	115592-83-1
	2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and alpha-omega-perfluoro-C8-14-alkylacrylate	125328-29-2
	2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and gamma-omega-perfluoro-C8-14-alkylacrylate	129783-45-5
	2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and gamma-omega-perfluoro-C18-14-alkyl acrylate	144031-01-6
	Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12-docosafuoro-11-(trifluoromethyl)-	15811-52-6
	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-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl ester	16083-87-7
	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-heneicosafuorododecyl ester	17741-60-5
	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, 1,1'-(hydrogen phosphate); Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafuorododecyl) hydrogen phosphate	1895-26-7
	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-12-iodo-; C10-2 telomer B iodide	2043-54-1
	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-heneicosafuorododecyl ester	2144-54-9
	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12- pentacosafuoro-14-iodo-; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodotetradecane	30046-31-2
	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafuoro-11-iodo-	307-50-6
	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-12-iodo-	307-60-8
	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-14-iodo-; Nonacosafuoro-1-iodotetradecane	307-63-1
	Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)-; 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)dodecane	3248-61-1
	Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-octacosafuoro-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-hentriacosafuoro-15-iodo	335-79-5
	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafuoro-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-pentacosafuoro-; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecanol	39239-77-5
	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
	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-nonacosafuorohexadecyl 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-nonacosafuorohexadecyl methacrylate	4980-53-4
	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-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-nonadecafuoro-9-iodo-; Nonadecafuoro-9-iodononane	558-97-4
	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 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-nonacosafuoro-; 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-nonacosafuorohexadecanol	60699-51-6
	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-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-icosafuoro-2-hydroxy-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-tetracosafuoro-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-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl dihydrogen phosphate	63295-28-3
	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafuorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate	65104-45-2
	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-16-iodo-; 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
	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafuoro-11-iodo-; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafuoro-11-iodoundecane	65510-56-7
	Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafuoro-10-iodo-2-(trifluoromethyl)-; Eicosafuoro-10-iodo-2-(trifluoromethyl)decane	677-93-0
	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-hexacosafuoro-13-(trifluoromethyl)myristoyl fluoride	68025-62-7
	2H-Pyran, 2,2,3,3,4,4,5,5,6-nonafuorotetrahydro-6-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafuorononyl)-	68155-54-4
	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
	Phosphonic acid, perfluoro-C6-12-alkyl derivs.	68412-68-0
	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-nonadecafuoro-1-oxodecyl)-, hydroxide, inner salt; 1-(Carboxylatomethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafuoro-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-eicosafuoro-11-(trifluoromethyl)dodecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12-icosafuoro-11-(trifluoromethyl)dodecyl methacrylate	74256-14-7

Substance group	Specific substance	CAS No
42. Perfluorocarboxylic acids (PFCA: C9-C14), their salts and C9-C14 PFCA-related compounds	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-tetracosafuoro-13-(trifluoromethyl)tetradecyl ester;	74256-15-8
	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl methacrylate	
	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, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-; C10-2 fluorotelomer alcohol; 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	865-86-1
	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-2,1-ethanedioxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,15,15-pentacosafuoro-; 1,1'-[oxybis[(1-methylethyleneoxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-pentacosafuoropentadecan-2-ol	93776-00-2
	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-pentacosafuoro-2-hydroxypentadecyl]amino]-, inner salt; (2-carboxylatoethyl)(dimethyl)[3-[[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-pentacosafuoro-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-heneicosafuoro-2-hydroxytridecyl]amino]-N,N-dimethyl-, inner salt; (2-carboxylatoethyl)[3-[[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-2-hydroxytridecyl]amino]propyl]dimethylammonium	93776-13-7
	1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]-, inner salt; (2-carboxylatoethyl)(dimethyl)[[[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15-pentacosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]propyl]ammonium bis(2-hydroxyethyl)methyl[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-pentacosafuoro-2-hydroxypentadecyl]ammonium iodide	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-heneicosafuoro-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-heneicosafuoro-2-hydroxytridecan-1-yl][bis(2-hydroxyethyl)]methylammonium iodide	93776-16-0
	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heneicosafuoro-, 1-(dihydrogen phosphate); 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heneicosafuoro-2-hydroxytridecyl dihydrogen phosphate	93776-17-1
	bis(2-hydroxyethyl)methyl[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl] ammonium iodide	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-pentacosafuoro-; 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-pentacosafuoropentadecan-2-ol	94159-76-9
	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-heneicosafuoro-; 1-[[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuorotridecan-2-ol	94159-79-2
	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-tetracosafuoro-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-pentacosafuoro-14-(trifluoromethyl)pentadecan-2-ol	94159-80-5
	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-eicosafuoro-12-(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-icosafuoro-12-(trifluoromethyl)tridecan-1-ol	94159-82-7
	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15-pentacosafuoro-2-hydroxypentadecyl dihydrogen phosphate	94159-83-8
	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,16,16,17,17-nonacosafuoro-2-hydroxyheptadecyl dihydrogen phosphate	94200-42-7
	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heneicosafuoro-, 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-heneicosafuoro-2-hydroxytridecyl phosphate	94200-43-8
	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-pentacosafuoro-, 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-pentacosafuoro-2-hydroxyheptadecyl phosphate	94200-46-1
	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-nonacosafuoro-, 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-nonacosafuoro-2-hydroxyheptadecyl phosphate	94200-47-2
	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt; Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-icosafuoro-2-hydroxy-12-(trifluoromethyl)tridecyl phosphate	94200-48-3
	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-tetracosafuoro-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-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl phosphate	94200-50-7
	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15-pentacosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl phosphate	94200-51-8
43. Tetrabromo-bisphenol A (TBBPA)	Tetrabromobisphenol A (TBBPA)	79-94-7
	;2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	
	2,2'-[(1-methylethylidene)bis[2,6-dibromo-4,1-phenylene]oxy]methylene]]bisoxirane	3072-84-2
	1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromopropoxy)benzene]	21850-44-2
	TBBA-bis-(allyl-ether)	25327-89-3
	;1,1'-isopropylidenebis[4-(allyloxy)-3,5-dibromobenzene]	
	TBBA-dimethyl-ether	37853-61-5
	;4,4'-(isopropylidene)bis[2,6-dibromoanisole]	
	1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene]	97416-84-7
	(INTERTAB FR 184)	
	A mixture of: 2-ethyl-[2,6-dibromo-4-[1-[3,5-dibromo-4-(2-hydroxyethoxy)phenyl]-1-methylethyl]phenoxy]propenoate; 2,2'-diethyl-[4,4'-bis(2,6-dibromophenoxy)-1-methylethylidene] dipropenoate; 2,2'-[(1-methylethylidene)bis[[2,6-dibromo-4,1-phenylene]oxy]ethanol]](TR33R)	-
	2,2-bis(3,5-dibromo-4-(3-acryloyloxy-2-hydroxypropoxy)phenyl)propane (SC 11 PREPOLYMER) (BB 331)	-
	TBBA-epichlorhydrin oligomer	-
	;2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	40039-93-8
	2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane and 2,4,6-tribromophenol	158725-44-1
	Phenol, 4,4'-(1-methylethylidene)bis[2,6-dibromo-, polymer with 2-(chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol], Ph ethers	1045809-53-7
	2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether	1179964-22-7

Substance group	Specific substance	CAS No
43.Tetrabromo-bisphenol A (TBBPA)	Reaction mass of 1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene] and 1,3-dibromo-2-(2,3-dibromo-2-methylpropoxy)-5-(2-[3,5-dibromo-4-(2,3,3-tribromo-2-methylpropoxy)phenyl]propan-2-yl)benzene	-
44.Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	<a href="https://comptox.epa.gov/dashboard/chemical-lists/PFASSTRUCT">https://comptox.epa.gov/dashboard/chemical-lists/PFASSTRUCT</a> <a href="https://comptox.epa.gov/dashboard/chemical-lists/PFASDEV1">https://comptox.epa.gov/dashboard/chemical-lists/PFASDEV1</a>	
45.Bis(2-ethylhexyl) tetrabromophthalate	Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7
46.Perfluoroheptanoic acid and its salts	Perfluoroheptanoic acid Sodium perfluoroheptanoate Ammonium perfluoroheptanoate Potassium perfluoroheptanoate	375-85-9 20109-59-5 6130-43-4 21049-36-5
47.Technical endosulfan and its related isomers	Endosulfan Endosulfan Endosulfan	115-29-7 959-98-8 33213-65-9
48.Dicofol	Dicofol	115-32-2
49.Pentachlorophenol and its salts and esters	2,2,2-Trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl)ethanol Carbonic acid, 1,1-dimethylethyl pentachlorophenyl ester Acetic acid, 2,2,2-trichloro-, 2,3,4,5,6-pentachlorophenyl ester Acetic acid, 2,2-dichloro-, 2,3,4,5,6-pentachlorophenyl ester Pentachlorophenol salts Pentachlorophenol Sodium pentachlorophenolate Zinc bis(pentachlorophenolate) N2-benzyl pentachlorophenyl N2-carboxy-L-(2-aminoglutarate) Perchlorophenyl N-(benzyloxycarbonyl)-L-isoleucinate Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate Pentachlorophenyl N-[(4-methoxyphenyl)methoxy]carbonyl-L-serinate Pentachlorophenol esters Perchlorophenyl 5-oxo-L-proline Pentachlorophenyl laurate Potassium pentachlorophenolate	10606-46-9 18942-25-1 2879-60-9 19745-69-8 87-86-5 131-52-2 2917-32-0 13673-51-3 13673-53-5 13673-54-6 23234-97-1 28990-85-4 3772-94-9 7778-73-6
50.Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Phenol, methylstyrenated	68512-30-1
51.Other Halogenated Flame Retardants	Potassium 1,1,2,2,3,4,4,4-nonafluorobutane-1-sulphonate	29420-49-3
52.Methoxychlor	Methoxychlor 2,4'-Methoxychlor 1,1'-(2,2,2-trichloroethane-1,1-diyl)bis(2-methoxybenzene) - - - -	72-43-5 30667-99-3 76733-77-2 255065-25-9 255065-26-0 59424-81-6 1348358-72-4
53.Perfluorohexane acid (PFHxA)its salts and PFHxA related compounds	Ammonium undecafluorohexanoate sodium undecafluorohexanoate undecafluorohexanoic acid Chlorodimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane sodium hydrogen (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phosphonate (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phosphonic acid monoethyl ester 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorooctyl methacrylate lithium 2-(bis(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-2-hydroxynonyl)amino)ethane-1-sulfonate 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-2-hydroxynonyl acrylate triethoxy(5,5,6,6,7,7,7-heptafluoro-4,bis(trifluoromethyl)heptyl)silane 1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-(trifluoromethyl)pentane (perfluorohexyl)hexadecane 1-(Perfluorohexyl)octane Trimethyl(tridecafluorohexyl)silane 4,4,5,5,6,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl acrylate 4,4,5,5,6,6,7,7,7-Octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl methacrylate 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl acrylate bromotris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane ammonium 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanesulfonate; reaction mass of: (prop-2-en-1-yl)tris(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)stannane Tris[4-(tridecafluorohexyl)phenyl]phosphine 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane 1H,1H-Tridecafluoro-1-iodoheptane 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl methacrylate Tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)phenyl]phosphine Phosphonic acid-P-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-ene 1H-Tridecafluoro-3,3-dimethylhex-1-yne Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester Methyl Perfluoroamyl Ketone 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonyl chloride 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonic acid 2H,2H,3H,3H-Perfluorononanoic acid Perfluorohexanoic Anhydride 1-Methyl-3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)imidazolium hexafluorophosphate Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)tin oxide Perfluorohexanoyl chloride 1-bromo-1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorohexane 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-octane-1-sulfonamide Carboxymethyl dimethyl-3 Carboxymethyl dimethyl-3 1H,1H-Undecafluorohexylamine Perfluorohexanoyl fluoride 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)benzyl alcohol Diisopropyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane 4-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)thio]butane-1-thiol 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol Ethyl Perfluoroamyl Ketone 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane 1,2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptane 1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- 1H,1H-Tridecafluoroheptylamine Methyl Undecafluorohexanoate Bis(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl) azodicarboxylate 2-[methyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]ethyl acrylate (7E)-7H,8H-Hexacosafuorotetradec-7-ene 1-Octanesulfonamide, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-N(2-hydroxyethyl)-N-methyl- Triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane Perfluoroheptanoyl chloride	21615-47-4 2923-26-4 307-24-4 102488-47-1 1189052-95-6 1189052-97-8 1228350-17-1 1262880-17-0 127377-12-2 130676-81-2 132182-92-4 133310-71-1 133331-77-8 1335841-48-5 16083-76-4 16083-79-7 17527-29-6 175354-31-1 175354-32-2 182176-52-9 192212-66-1 193197-68-1 2043-57-4 212563-43-4 2194-53-8 219985-31-6 252237-40-4 25291-17-2 261503-44-0 26650-09-9 2708-07-8 27619-89-2 27619-97-2 27854-30-4 308-13-4 313475-50-2 324063-66-3 335-53-5 335-56-8 34451-26-8 34455-22-6 34455-29-3 355-34-0 355-38-4 355-43-1 356055-76-0 356056-14-9 36097-07-1 375-82-6 383177-55-7 38550-34-4 38565-52-5 423-46-1 423-49-4 424-18-0 452912-11-7 49859-70-3 51249-67-3 51619-73-9 51851-37-7 52447-22-0

Substance group	Specific substance	CAS No
53. Perfluorohexane acid (PFHxA) its salts and PFHxA related compounds	6:2 fluorotelomer carboxylic acid	53826-12-3
	3-(Perfluoro-3-methylbutyl)-1,2-propenoxide 97%	34009-61-3
	N-[4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyloxycarbonyloxy] succinimide	556050-48-7
	1H-Perfluorooct-1-yne	55756-24-6
	6:2 fluorotelomer aldehyde	56734-81-7
	1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, 1(dihydrogen phosphate)	57678-01-0
	Potassium 3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctanesulphonate	59587-38-1
	Ammonium Perfluorohexylethylsulfonate	59587-39-2
	sodium 2-methyl-2-[(3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-perfluoroheptanal	62880-93-7
	2-(Perfluoro-3-methylbutyl)ethyl methacrylate	63967-41-9
	6:2 fluorotelomer unsaturated aldehyde	65195-44-0
	6:2 fluorotelomer unsaturated carboxylic acid	69534-12-9
	Dichloromethyl(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)silane	70887-88-6
	2-Hydroxy-N,N-dimethyl-3-sulfo-N-[3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-(Perfluorohexyl)phenyliodonium Trifluoromethanesulfonate	73609-36-6
	Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane	76201-56-4
	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctanesulphonamide N-oxide	77758-84-0
	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorooctane	78560-45-9
	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol	80475-32-7
	1-(Perfluorohexyl)docosane	80793-17-5
	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide	80806-68-4
	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl azide	825651-73-8
	Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane	852527-41-4
	Dimethoxymethyl(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)silane	852527-50-5
	3-perfluorohexyl-2-hydroxypropyl methacrylate	852527-60-7
	(Perfluorohexyl)trifluoroacrylate	85857-16-5
	2-hydroxy-N,N,N-trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8tridecafluorooctyl)thio]propan-1-aminium	85857-17-6
	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide	86994-47-0
	3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol	87375-53-9
	2-Chloro-4,6-bis(3-(perfluorohexyl)propoxy)-1,3,5-triazine	88992-45-4
	N-Succinimidyl 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononanoate	89889-20-3
	2,7-Bis(1H1H2H,2H-perfluorooctyl)-9-fluorenylmethoxycarbonyl chloride	914637-05-1
	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-chloroacrylate	916770-15-5
	2-Iodo-1-(perfluorohex-1-yl)octane	932710-51-5
	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol	932710-57-1
54. Perfluorocarboxylic acids (PFCA: C15-C21), their salts and C15-C21 PFCA-related compounds	Pentadecanoic acid, nonacosafuoro- (C15 PFCA) and the salts	96383-55-0
	Hexadecanoic acid, hentriacontafuoro- (C16 PFCA) and the salts	109574-84-7
	Perfluoroheptadecanoic acid (C17 PFCA) and the salts	647-42-7
	Octadecanoic acid, pentatriacontafuoro- (C18 PFCA) and the salts	141074-63-7
	Perfluorononadecanoic acid (C19 PFCA) and the salts	67905-19-5
	Perfluoroeicosanoic acid (C20 PFCA) and the salts	67475-95-3
	Perfluoroheneicosanoic acid (C21 PFCA) and the salts	16517-11-6

## Appendix 1 Annex 3 : Reference laws and regulations

No.	Country, region/standard, etc.	Name of law, etc.
1	EU	RoHS Directive 2011/65/EU and its amendments
2	China	Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products
3	Japan	Law for the Promotion of Effective Utilization of Resources
4	USA California	Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
5	EU	REACH Regulation (EC) No.1907/2006 ANNEX XVII
6	EU	REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
7	Japan	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
8	USA	Toxic Substances Control Act (TSCA)
9	Norway	Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922
10	Canada	Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment
11	Switzerland	Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81
12	USA	Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
13	EU	Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021
14	Canada	Products containing Mercury Regulations SOR/2014-254
15	Austria	BGB I 1990/194: Formaldehyde Restriction §2, 12/2/1990
16	Korea (the Republic of)	Persistent Organic Pollutants Control Act
17	Lithuania	Hygiene Norm HN 96:2000 (Hygiene Norms and Regulations)
18	USA California	Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
19	USA California	Perchlorate Contamination Prevention Act of 2003 AB 826
20	EU	Commission Regulation (EU) 2019/2021 laying down ecodesign requirements for electronic displays
21	EU	Ecodesign requirements (EU) 2021/341 and (EU) 2019/424 pursuant to Directive 2009/125/EC
22	EU	Battery Directive 2006/66/EC
23	China	Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009
24	Korea (the Republic of)	Quality Management and Manufactured Product Safety Management Law (Battery Regulation)
25	Taiwan (Province of China)	Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries
26	USA New York	Environmental Conservation Law, Battery management and disposal § 27-0719
27	EU	REGULATION (EU) No 517/2014 on fluorinated greenhouse gases
28	EU	Regulation on substances that deplete the ozone layer (EC) No. 1005/2009
29	Japan	Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures
30	USA	Clean Air Act
31	International Treaty	Montreal Protocol on Substances that Deplete the Ozone Layer
32	EU	Directive 2013/59/Euratom
33	Japan	Law Concerning Prevention from Radiation Hazards due to Radio-Isotopes, etc.
34	Japan	Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors
35	USA	Nuclear Regulatory Commission Regulations Title 10 CFR Part 20
36	(Guidance)	EICTA, CECEC and EERA Joint Position : Guidance on implementing article 11 of Directive 2002/96/EC concerning information for treatment facilities
37	Standard	IEC 61249-2-21
38	Standard	IPC-4101
39	Standard	JEDEC JS709
40	EU	Package Directive 94/62/EC
41	Korea (the Republic of)	ACT ON THE PROMOTION OF SAVING AND RECYCLING OF RESOURCES
42	France	Order of April 13, 2022 specifying the substances contained in mineral oils whose use is prohibited on packaging and for printing intended for the public
43	Spain	Law 7/2022, of April 8, on waste and contaminated soil for a circular economy.
44	USA Maine	Chapter 447 (LD 1503, 2021) PFAS regulation
45	USA	Model Toxics in Packaging Legislation
46	International Treaty	Stockholm Convention
47	USA Washington	Safer Products for Washington
48	France	<a href="#">Anti-Waste and Circular Economy Law 2020-105</a>
101	USA	EPEAT(Electronic Product Environmental Assessment Tool)
102	EU	EU-WEEE Directive(2012/19/EU)

## Annex 2. Konica Minolta Chemicals - List of Prohibited and Restricted Substances

Category I : Difficult to manage risk as users cannot be identified  
 Category II : Risk management is made possible by thorough working procedures.  
 Category III : Risk management is made possible by ensuring protective equipment is worn.  
 Category IV : Risk management is made possible by equipment measures.

Since risks differ depending on the form of exposure, Konica Minolta classifies substances into five categories that envision usage, ranging from use under strict safety controls (e.g., at production sites) to use by the general public, which cannot be assumed to take safety measures.

※The table below is for reference only. Chemicals - Prohibited and restricted substances are determined by konicaminolta.

List of prohibited and restricted chemicals in chemical products.									List of prohibited and restricted chemicals for used in the production site.	
category	I		II		III		IV		Used in production site	
	← consumer use				professional use →				professional use	
	prohibited substances	restricted substances	prohibited substances	restricted substances	prohibited substances	restricted substances	prohibited substances	restricted substances	prohibited substances	restricted substances
Japanese Laws and regulations										
Chemical Substance Control Law [CSCL]	Class I Specified Chemical Substances,	Type II Monitoring Chemical Substances (before amendment),	Class I Specified Chemical Substances,	Type II Monitoring Chemical Substances (before amendment),	Class I Specified Chemical Substances,	Monitoring Chemical Substances,	Class I Specified Chemical Substances	Class II Specified Chemical Substances,	Class I Specified Chemical Substances	Class I Specified Chemical Substances
	Class II Specified Chemical Substances,	Equivalent to Type II Monitoring Chemical Substances	Class II Specified Chemical Substances,	Equivalent to Type II Monitoring Chemical Substances		Monitoring Chemical Substances,		Type II Monitoring Chemical Substances (before amendment),		
	Monitoring Chemical Substances		Monitoring Chemical Substances	Equivalent to Type II Monitoring Chemical Substances		Equivalent to Type II Monitoring Chemical Substances		Equivalent to Type II Monitoring Chemical		
Industrial Safety and Health Act [ISHA]	Chemical Substances Prohibited to Manufacturing, etc.,  Strong Mutagenic Chemical Substances	---	Chemical Substances Prohibited to Manufacturing, etc.	Strong Mutagenic Chemical Substances	Chemical Substances Prohibited to Manufacturing, etc.	Strong Mutagenic Chemical Substances	Chemical Substances Prohibited to Manufacturing, etc.	Strong Mutagenic Chemical Substances	Chemical Substances Prohibited to Manufacturing, etc.	Strong Mutagenic Chemical Substances
Poisonous and Deleterious Substances Control Act	Specified Poisonous Substances,  Poisonous Substances	---	Specified Poisonous Substances,  Poisonous Substances	---	Specified Poisonous Substances	Poisonous Substances	Specified Poisonous Substances	Poisonous Substances	Specified Poisonous Substances	Poisonous Substances
Act on Prohibition of Chemical Weapons and Control of Specific Chemicals	Specific Chemicals,  First Class Designated Chemicals,  Second Class Designated Chemicals	---	Specific Chemicals,  First Class Designated Chemicals,  Second Class Designated Chemicals	---	Specific Chemicals,  First Class Designated Chemicals	Second Class Designated Chemicals	Specific Chemicals,  First Class Designated Chemicals	Second Class Designated Chemicals	Specific Chemicals,  First Class Designated Chemicals	Second Class Designated Chemicals
Laws and regulations other than Japan										
Stockholm Convention on Persistent Organic Pollutants (POPs)	listed	---	listed	---	listed	---	listed	---	listed	---
Montreal Protocol on Substances that Deplete the Ozone Layer.	listed	---	listed	---	listed	---	listed	---	ANNEX A,B, C-gr II, III	ANNEX C-gr I , E
United Nations Framework Convention on Climate Change	HFC,PFC SF <sub>6</sub>	---	HFC,PFC SF <sub>6</sub>	---	HFC,PFC SF <sub>6</sub>	---	HFC,PFC SF <sub>6</sub>	---	---	HFC,PFC SF <sub>6</sub>
TSCA §6	listed	---	listed	---	listed	---	listed	---	listed	---
RoHS (2011/65/EU)	listed	---	listed	---	listed	---	listed	---	listed	---
REACH ANNEX XVII (*1) ChemVerbotsV	---	listed	---	listed	---	listed (regulated use)	---	listed (regulated use)	---	listed (regulated use)
REACH SVHC	---	listed	---	listed	---	listed	---	listed	---	listed
CLP ((EC) No. 1272/2008) ANNEX VI (*1)	---	listed	---	listed	---	Acute Tox. 1	---	Acute Tox. 1	---	Acute Tox. 1
Hazard classification - Carcinogenicity, Mutagenicity and Reproductive toxicity										
IARC (Carc)	1,2A,2B	---	1,2A,2B	---	1,2A	2B	1	2A,2B	1	2A,2B
CLP ((EC) No. 1272/2008) ANNEX VI	1A,1B,2	---	1A,1B,2	---	1A,1B	2(Except Repr 2)	1A	1B,2(Except Repr 2)	1A	1B,2(Except Repr 2)
EPA (Carc)	A,B1,B2	---	A,B1,B2	---	A,B1	B2	A	B1,B2	A	B1,B2
NTP (Carc)	K,R	---	K,R	---	K	R	K	R	K	R
ACGIH (Carc)	A1,A2,A3	---	A1,A2,A3	---	A1,A2	A3	A1	A2,A3	A1	A2,A3
Japanese Society of Occupational Health[JSOH] (Carc)	Class1, Class2(A)(B)	---	Class1, Class2(A)(B)	---	Class1, Class2(A)	Class2(B)	Class1	Class2(A)(B)	Class1	Class2(A)(B)
MAK (Carc,Mut,Repr)	1,2,3 (Except Repr3)	---	1,2,3 (Except Repr3)	---	1,2	3(Except Repr3)	1,2	3(Except Repr3)	1,2	3(Except Repr3)
TRGS 905 (Carc,Mut,Repr)	1,2,3	---	1,2,3	---	1,2	3(Except Repr3)	1,2	3(Except Repr3)	1,2	3(Except Repr3)
OSHA Z-Tables (Carc)	listed	---	listed	---	---	listed	---	listed	---	listed
Proposition 65 (Carc,Repr)	---	listed	---	listed	---	---	---	---	---	---

\*1 Excluding physicochemical hazard classifications.



Appendix 3: Categories of EEE covered by RoHS

Categories	EEE
1	Large household appliances.
2	Small household appliances.
3	IT and telecommunications equipment.
4	Consumer equipment.
5	Lighting equipment.
6	Electrical and electronic tools.
7	Toys, leisure and sports equipment.
8	Medical devices.
9	Monitoring and control instruments including industrial monitoring and control instruments.
10	Automatic dispensers.
11	Other EEE not covered by any of categories above.