



Kyocera Guideline on Environmentally Hazardous Substances (Brochure for Business Partners)

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This guideline explains the Kyocera group's basic criteria for green procurement. A guideline issued by the group company takes priority when it is separately available.

Additional instructions issued by any Kyocera Corporation business unit should be followed in addition to this guideline.

Preface

Since its foundation, Kyocera has carried out activities based on its corporate motto "Respect the Divine and Love People" and its management rationale "Contribute to the Advancement of Society and Humankind While Pursuing the Material and Spiritual Happiness of All Employees."

Adhering to this management philosophy, Kyocera and its domestic and foreign affiliates have promoted the development and commercialization of solar cells and other products that contribute to global environmental preservation. Additionally, the Kyocera group has undertaken other active efforts for environmental preservation, including environmental management at its plants to reduce damage to the natural environment and adverse influences on the ecosystem.

In August 1998, Kyocera commenced efforts on the framework of its green procurement, which involves the selection of products to be procured on the basis of consideration of environmental issues. This move was due to our judgment that in order to reduce the environmental impact associated with our products, we needed to reduce such impacts attributed to parts built into the products, as well as materials procured by us. In December of the same year, we published our Guideline on Green Procurement, which outlines our approach to green procurement, our related requests to suppliers, and other relevant matters. Based on the Guideline, we have been successfully carrying out green procurement activities, thanks to the understanding and cooperation of our business partners.

We have divided our conventional "Kyocera Green Procurement Guideline" into two and established guidelines "Kyocera Guideline on Environmentally Hazardous Substances" that specifies the standards for product specifications for promoting green procurement and "Kyocera Guideline on Environmental Protection Activities (for Partners)" that describes the guiding principles for Kyocera's idea of environmental protection activities.

Nowadays, legal regulations on environmental affairs as well as growing public demand for environmental protection have been more and more strengthened. We need cooperation of our business partners for complying with their requirements.

Accordingly, we ask for your understanding of the purposes of these activities, as well as your cooperation in this regard.

Kyocera Group Environmental Safety Policy

The Kyocera Group has put in place the Kyocera Group Environmental Safety Policy, which combines policies on the environment and safety and sanitation, including providing products that contribute to the global environment and contributing to a sustainable society, to promote comprehensive measures for environmental safety based on its management rationale in conducting business activities. Business activities covered by the policies below include business expansion via M&A, where we carry out due diligence to identify potential environmental risks and reflect that in post-acquisition improvement plans.

- 1. Compliance with laws and other regulations
- Kyocera will comply with laws, agreements, and internal standards regarding the environment and work safety.
- 2. Provide products that contribute to the global environment
- Kyocera will increase research and development of products that make a positive contribution to the enhancement of the global environment and minimize environmental impact at all stages of theproduct life cycle; and the Company will strive to spread the use of such products.
- 3. Contribute to a sustainable society
- Kyocera will promote greenhouse gas emission control in the entire value chain to contribute to the realization of a carbon-free society.
- Kyocera will contribute to the realization of a society with sustainable recycling of resources by purchasing resources with low environmental impact, reducing the volume of new resource consumption, and minimizing waste.
- Kyocera will strive to prevent environmental pollution by properly managing chemical substances inall processes.
- Kyocera will advance conservation of biodiversity by minimizing negative impacts on the natural environment, as well as by protecting and nurturing the natural environment.
- 4. Ensure employee health and safety and prevent accidents and disasters
- Kyocera aims to build a corporate culture that creates an accident-free and disaster-free workplace environment where everyone can work safely and with peace of mind.
- Kyocera will conduct risk assessments and reduce occupational health and safety risks by eliminating sources of danger in order to prevent workplace accidents and disasters.
- Kyocera strives to build a work environment where employees feel healthy, enjoy job satisfaction and can reach their maximum potential by promoting mental and physical health.

5. Conduct stakeholder communication

- Kyocera will support Corporate Social Responsibility (CSR) activities and communicate with various stakeholders.
- 6. Operation of an environmental and safety management system
- In the course of business activities, through operation of the management system, the Kyocera Group will proactively promote comprehensive measures for environmental protection and work safety, based on the management rationale, and continuously improve environmental and safety performance.

Kyocera's Guideline on Environmentally Hazardous Substances

1. Objective

The purpose of this Guideline is to specify the chemical substance prohibited or to be managed in raw materials, parts (general purchased products, outsourced products), packing materials, production facilities and so forth Kyocera purchases so that the information we would like our partners to observe is clarified and that the environment-related laws and regulations are observed thoroughly.

We ask our partners to implement environmental load reduction activities according to this Guideline.

2. Scope

- (1) The Guideline covers those businesses that supply materials and other articles to Kyocera (comprising vendors and outsourcing businesses).
- (2) It also covers raw materials, parts (that are either available on the market or custom-made through outsourcing), package materials, production facilities and etc. procured by Kyocera. The Company will provide suppliers with a list of articles for which chemical substance contents etc. should be surveyed.

3. Definition of Terms

- (1) Substances that Exert an Environmental Load
 - This term refers to prohibited chemical substances (ranks A and B), and to controlled chemical substances (rank C).
- Prohibited Chemical Substances (Rank A)
 This term refers to those chemical substances that must not be contained in any articles, and whose use in manufacturing processes is prohibited. These substances are listed in Table 1.
- (3) Prohibited Chemical Substances (Rank B) This term refers to those chemical substances that must not be contained in any articles. These substances are listed in Table 2. Some rank B prohibited chemical substances will be prohibited immediately after the issue of the Guideline. Other rank B chemical substances will be prohibited after the elapse of a certain period following the issue of the Guideline. For some substances in this category, provisions may be made to limit their application or specify threshold values.
- (4) Controlled Chemical Substances (Rank C)

Since neither an alternative material or technology have been established, this term refers to those chemical substances that may be used intentionally, on condition that the status of their use is monitored, and that due consideration is given to recycling and other steps for appropriate management. These substances are listed in Table 2.

(5) Intentional Use

This term refers to the conscious addition of a substance by a manufacturer, or the use of a material with a substance added, to create a basic raw material that is added as an ingredient to a product, to achieve a targeted performance or function, or to maintain desirable conditions etc. in a certain process.

(6) Contain (Contained/Content)

This term refers to the following cases:

- (i) When a chemical substance is included in a part, material or product as an ingredient, whether intentionally or not;
- (ii) When a chemical substance is mixed with other ingredients to maintain desirable

conditions, quality etc. in a production process, and thus becomes included in a part, material or product;

(iii) When a chemical substance is used in a production process, and remains in, or sticks to, the finished product, part, material or other.

According to our interpretation, the term also refers to cases in which a chemical substance is contained in a natural material, or in which impurities remain after the completion of an industrial refining process. Such chemical substances are not regarded as contained in an article if such containment at any significant level is not technically anticipated, or if no information on such contents is available; however, this does not apply if such containment is problematic in view of relevant domestic and/or foreign regulations.

(7) Impurity

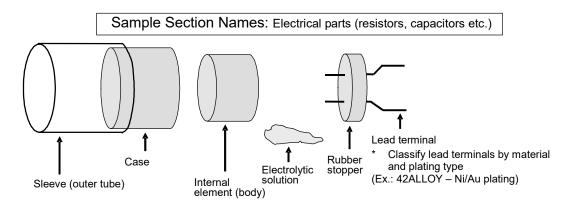
This term refers to the following:

- (i) Substances contained in natural materials that cannot be removed completely using existing technology in a process in which the materials are refined for industrial use;
- (ii) Substances generated during a chemical synthesis reaction that cannot be removed completely using existing technology;
- (iii) Substances (generally referred to as dopants) that are mixed with other ingredients in the manufacture of semiconductor ICs to control semiconductor characteristics.
- (8) Threshold

This term refers to the allowable content in an application. Indicates the boundary value for concentration.

(9) Section (Relevant Section)

This term refers to a section containing certain chemical substances that are deemed to be uniform in property. "Relevant section" refers to the section of a part that contains the surveyed chemical substances.



(10) SDS

This term refers to Material Safety Data Sheet describing the properties and handling of chemical substances etc. in conformity with the provisions of the PRTR Law (Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in their Management) and-Industrial Safety and Health Law.

(11) Minerals

This term refers to naturally produced minerals that have inorganic crystal structure.

- (12) Substance (chemical substance)This term refers to an individual chemical substance.Ex. lead oxide, nickel chloride, benzene, etc.
- (13) Mixture

This term refers to a mixture (including solvent) intentionally comprising two or more individual chemical substances.

Ex. Paints, inks, solders prior to use, adhesives, alloys, plating material, detergent, etc.

(14) Article (product formed into a shape)

This term refers to an item of specific shape, surface, or design provided during manufacture which determines functions in final use at a level beyond that provided by its chemical composition.

Ex. Capacitors, LSIs, lead frames, screws, etc.

4. Concept for environmental management on purchased products

- a. Control of Chemical Substances Contained in Purchased Articles The contained chemicals will be checked by obtaining data in accordance with various forms of our specification (see Section 5, Table 1), and managed thoroughly depending on the hazardousness and so forth.
- b. Consideration of the Environmental Impacts of Purchased Equipment When introducing equipment, we determine specifications after considering environmental impact. Further, when installing equipment, we control operational status thoroughly at the same time as confirming its specifications.
- c. Specifications of Packaging Materials Used for Purchased Articles

We endeavor to reduce the amount of package materials used, promote the reuse of such materials, and introduce new materials that can be recycled more easily.

Additionally, we prohibit the intentional inclusion, including impurities harmful substances (\times 1), as well as exterior package/cushioning materials made of vinyl chloride.

Mercury and its compounds	Organic phosphorous compounds	Cyanogen compounds	Tetrachloroethylene
Cadmium and its compounds	Hexavalent chromium compounds	PCB	1,1,1-trichloroethane
Lead and its compounds	Arsenic and its compounds	Trichloroethylene	Carbon tetrachloride

*1 Hazardous Substances

d. Material Marking of Purchased Articles

To reduce environmental impact, we promote material marking for purchased resin-based articles by designating the specifications of the articles and holding discussions with business partners. This step is aimed at furthering the recycling of purchased articles through sorting at the time of disposal.

5. Submission of information on environmental hazardous substances included in procured products

Regarding the specific subject products for which investigation on chemicals is required as well as the forms for information on environmentally hazardous substances (see Table 1) to be prepared by our partners, we will present them through the information management system on chemical substances contained in products (EARTHs) and so forth.

In addition, we may ask you to prepare information in forms that are specified uniquely by our business divisions besides the [common] forms.

Submitte	d documents	Need or no-need of su	Ibmission	_
Form No.	Title of the form	Chemical substance and preparation	Article ^{*1}	Remarks
Form 2	Warranty of non-use Prohibited Chemical Substances	Submission is necessary.	Submission is necessary.	
-	Report on Constituent Contents			Which could be used, Environmentally Hazardous
Form 3	Environmentally Hazardous Substances Survey Tool (JAMP format)	Submission is necessary.	Submission is necessary.	Substances SurveyTool (JAMP format) or Report on Constituents, will be notifiy.
-	chemSHERPA CI	Need or no-need of submission will be notified		*2
-	chemSHERPA AI		Need or no-need of submission will be notified	*2
-	SDS	Submission is necessary.	Submission is necessary.	
-	Analysis data	Need or no-need of submission will be notified.	Need or no-need of submission will be notified.	Target products necessary for analysis data and detailed analysis methods will be notified.
Form 4	Certificate of constituent Contents	Need or no-need of submission will be notified.	Need or no-need of submission will be notified.	This is a format submitted to guarantee each delivery lot. Details will be notified.
Form 5	Application for change	Submission is necessary.	Submission is necessary.	

[Table 1: Submitted documents for information on substances of environmental concerns]

*1: Packaging materials for our products delivered to our customers are included, too.

*2: The JAMP MSDSplus/AIS download service has been terminated as of the end of June 2018, so please use the chemSHERPA tool to answer this question.

[Explanation of submitted documents]

■ Warranty of non-use Prohibited Chemical Substances (Form 2)

This form is to certificate the no containing of the Prohibited Chemical Substances (Rank A or B) listed in Kyocera Environmentally Hazardous Substances Guideline as well as nonuse of Prohibited Chemical Substances of Rank A in manufacturing processes.

Survey Response Tools (JAMP format)

Report information on chemical substances contained in the products delivered to our company by the use of the JAMP format. Incidentally, submit the survey format when we request and when constituent materials are changed.

[Report Criteria]

a. Chemical substances added intentionally, or detected to be contained in any amount.

- b. Chemical substances that are not added intentionally, but contained as impurely.
- JAMP chemSHERPA CI, AI

Report information on chemical substances contained in the products delivered to our company by the following tools;

Chemical substances and preparation =>Use the chemSHERPA CI

Article => Use the chemSHERPA AI

Incidentally, submit the survey format when we request and when constituent materials are changed.

[Report Criteria]

- a. Chemical substances added intentionally, or detected to be contained in any amount.
- b. Chemical substances that are not added intentionally, but contained as impurely.
- Report of Constituent Contents (attached Form 3)

Two types of formats are available, one for "chemical substance" and "preparation" and the oth er for "articles".

Report all the constituents that form products delivered to our company by the use of Report on Constituent Contents (Forms 3-1 and 3-2). Incidentally, submit the report when any material is newly adopted, when constituent material is changed, and when we request.

[Report Criteria]

- a. Chemical substances added intentionally, or detected to be contained in any amount.
- b. Chemical substances that are not added intentionally, but contained as impurely.
 (If content ratio is not identified but the substance may be contained as impurities, report the substance name only.)

SDS

Submit SDS complied with the PRTR Law and Industrial Safety and Health Law.

Analysis Data

Include "analysis method, pre-conditioning method, analysis equipment manufacturers, equipment No., method detection limit, calibration curve data, and analysis report" in the analysis data.

The analysis methods, in principle, comply with those declared in Attached Table 2, but can be accepted if combinations of pre-conditioning and analysis equipment can certificate that method detection limit is lower than the thresholds prescribed in Attached Table.

Submit the analysis data when any material is newly adopted, when constituent material is changed, and when we request.

Certificate of Constituent Contents (Form 4)

Make sure the relevant delivered lot can certificate the following content and enter the content that corresponds to the following with the inspection report, etc. of the members to be delivered: "We hereby certify that this content is same as the content of the on Environmentally Hazardous Substances Survey Tools (JAMP format) or the content of the Report on Constituent Contents submitted on MM/DD/YY."

For articles with no Inspection report etc., provided, please use attached Form 4 (Certificate of Constituent Contents).

■ Application for Change (Form 5)

If some of the contents of a delivered article have changed or if such a change is likely to take place (regarding material specifications, the supplier etc.), the change should be reported in advance by submitting the following documents:

- (i) Application for Change (attached Form 5)
- (ii) Documents already submitted, which need to be re-submitted as a result of the change.

In the event that the present guidelines are changed because of changes in law, ordinances, social circumstances, customer needs, and others, submit necessary documents that correspond to the content changed for goods continuously supplied.

6. Requests regarding management of four phthalates restricted by RoHS Directive and REACH Regulation

As you are aware, the four phthalates listed below were added to the list of restricted substances under the RoHS Directive in July 2019, and they also are restricted by the REACH Regulation from July2020.

-Dibutyl phthalate : DBP(CAS No84-74-2)

-Di (2-ethylhexyl) phthalate : DEHP(CAS No117-81-7)

-Butyl benzyl phthalate : BBP(CAS No85-68-7)

-Diisobutyl phthalate : DIBP(CAS No84-69-5)

The four phthalates are widely used as a plasticizer in products made of vinyl chloride or rubber, b ut contamination caused by their improper use or addition during manufacturing processes and contami nation due to migration of the plasticizer are matters of concern. For this reason, it is necessary to ensur e thorough management throughout the supply chain.

(1) Preventing contamination due to improper use and addition during manufacturing processes Even if t he four restricted phthalates are replaced with alternative plasticizers, contamination of products using al ternative plasticizers caused by the improper use or addition of the four restricted phthalates cannot be eliminated unless manufacturing processes, containers, etc. are separated according to the type of plast icizer used in the manufacturing processes of plasticizers, processes in which plasticizers are mixed with h resin or raw materials of rubber, and molding processes of vinyl chloride and rubber.

When any of the four restricted phthalates and an alternative plasticizer are added using the same manufacturing processes, containers, etc., periodic inspections of the state of contamination will be required in addition to cleaning of the manufacturing processes, containers, etc.

We ask businesses that supply goods using a plasticizer to conduct proper management internally, and to also ensure thorough management by upstream processors and provide necessary support. (2) Preventing contamination by migration during manufacturing processes

Because plasticizers do not form chemical bonds with vinyl chloride and rubber polymers, it is known that a plasticizer contained in a molded product "migrates" to another molded product under certain conditions.

For this reason, it is necessary to be vigilant against unintended contamination by migration. If businesses or upstream processors use anti-static mats, jigs, tools, rubber gloves, vinyl bags, etc. containing any of the four restricted phthalates in the form of a plasticizer in their manufacturing processes or for shipping purposes, and if a product comes in direct contact with any of them, the plasticizer may migrate to the product.

To minimize the risk of contamination, any anti-static mats, jigs, tools, rubber gloves, vinyl bags, etc. containing any of the four restricted phthalates in the form of a plasticizer should be removed from manufacturing processes and items used for shipping purposes. If this is difficult, please conduct appropriate management to make sure that, even if migration occurs through contact, no homogeneous material contains any of the four restricted phthalates above 1,000 ppm. In addition, please ensure thorough management by upstream processors and provide necessary support.

7. Transmission to secondary partners

(1) When the Partner is a Manufacturer

If a manufacturer with whom we have a business relationship procures parts or materials from other producers to produce articles for delivery to us, or if the manufacturer entrusts another business with the finishing of an article, the manufacturer is asked to direct the producer or business to carry out Environmentally hazardous substance management activities in accordance with this Guideline and confirm that such activities fulfill related requirements. Additionally, the manufacturer is requested to provide all necessary support to producers and businesses in this regard.

(2) When the Partner is a Trading Company

Any trading company with whom we have a business relationship is asked to communicate this Guideline to manufacturers from whom it purchases articles for delivery to us. As well, trading companies are requested to direct such manufacturers to carry out Environmentally hazardous substance management activities in accordance with the Guideline. Additionally, trading companies should collect information on the status of compliance with the Guideline from such manufacturers, and provide this information to us.

8. Others

We make the information submitted from your company available in Kyocera Corporation and use for control of environmental hazardous substance and for answer customer's inquires. In addition, we may communicate the information from your company to third party as Kyocera's information for compliance with law.

> [Contact] Kyocera Corporation Corporate Environment Group, Environmental Division: <u>kan.green01@kyocera.jp</u>

[Table 1] List of Prohibited Substances (Rank A)

No	Substance group	Substance group Relevant laws, ordinances etc.
1	CFCs (Annex A Group I substances in the Montreal Protocol)	
2	Halons (Annex A Group II substances in the Montreal Protocol)	
3	Other CFCs (Annex B Group I substances in the Montreal Protocol)	
4	Carbon tetrachloride (Annex B Group II substance in the Montreal Protocol)	Ozone Layer Protection
5	1.1.1-trichloroethane (Annex B Group III substance in the Montreal Protocol)	Law (Specific Substances)*2
6	Bromochloromethane (Annex C Group III substance in the Montreal Protocol)	
7	Methyl bromide (Annex E substance in the Montreal Protocol)	
8	HBFCs (Annex C Group II substances in the Montreal Protocol)	
9	HCFCs (Annex C Group I substances in the Montreal Protocol)	

Note 1: This Guideline does not cover Prohibited Substances (rank A) not used directly in production processes.

*1: This is a number assigned to each substance group by J GPSSI for classification of the substance.

*2: Details of Specific Substances in the Ozone Layer Protection Law are shown in Table 4

[Table 2] List of Prohibited/Controlled Chemical Substances (Rank B/C)

Metals and		group	Rank	Applications	Threshold value *1	Date of restriction	Remarks				
	1	Cadmium a		dmium compounds	· · ·		IEC62474 *12				
metal			В	Paints, inks, plastics, package materials *2	5ppm	Immediate					
compounds			B	Solder Batteries installed to Kyocera's products and shipped to Kyocera's	20ppm *3	Immediate Immediate					
			В	customer. Cadmium and its compounds in one shot pellet type thermal cut-offs	100ppm	Immediate					
			B	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm 2 of light-	100ppm	Immediate					
				emitting area) for use in solid state illumination or display systems							
			В	Applications other than those for rank B (paints, inks, plastics, package materials, solder) and rank C [metals that contain zinc (zinc die cast, galvanizing, etc.)]	100ppm	Immediate					
			В	Cadmium in photoresist for analog opto-coupler to be used for professional audio equipment.	100ppm	Immediate					
			В	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in highpowered loudspeakers with sound pressure levels of 100 dB (A) and	100ppm	Immediate					
			В	more. Cadmium and cadmium oxide in thick film pastes used on aluminium	100ppm	Immediate					
			С	bonded beryllium oxide. - 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, switches for use at voltage supply frequency ≥ 200 Hz. 							
				 Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex Cadmium in glazes used for reflectance standards 							
								- Cadmium in printing inks for the application of enamels on glasses,			
							-	such as borosilicate and soda lime glassesptions]			
						tances in equipment, tools, jigs, dies etc., when there is no possibility of the ium contained in a die (silver braze) for press working)	eir becomin	g contained in a	ny products (Ex		
							(a) Si	ysis method) imple analysis (screening measurement) od] X-ray fluorescence spectroscopy			
								the ai simpli analy in the (b) D [Meth [Equi spect	mary] After cutting and pulverizing samples, collect samples of a predetern nalysis equipment; this enables analysis as to whether or not cadmium is c fifed manner. This is suited for analysis of resin, rubber, metal, glass, cera sis software (fundamental parameter method) and quantitative analysis of equipment, measure the content. etailed analysis (quantitative analysis) od] ICP optical emission spectrometry pment] ICP optical emission spectrometer (ICP-OES), ICP mass spectrom rometer (AAS)	ontained as amic membe tware (calibr neter (ICP-N	well as the orde ers. Using semi- ation curve met S), atomic abso
			by the	mary] Completely dissolve and analyze samples. In the event that any resi fusion method, etc. Introduce the prepared solution sample into the ICP-C e standard solution, measure the concentration of cadmium in the solution	DES and from	m the calibration	curve prepare				
	2	Hevavalent	by the in sol	mary] Completely dissolve and analyze samples. In the event that any resi fusion method, etc. Introduce the prepared solution sample into the ICP-C e standard solution, measure the concentration of cadmium in the solution id samples.	DES and from	m the calibration	curve prepare cadmium cont				
	2	Hexavalent	by the in sol	mary] Completely dissolve and analyze samples. In the event that any resi fusion method, etc. Introduce the prepared solution sample into the ICP-C e standard solution, measure the concentration of cadmium in the solution id samples. ium compounds Package materials *2 Applications other than those for rank B (package materials) and rank C	DES and from	m the calibration	curve prepare				
	2	Hexavalent	by the in sol chrom B B C	mary] Completely dissolve and analyze samples. In the event that any resi fusion method, etc. Introduce the prepared solution sample into the ICP-C e standard solution, measure the concentration of cadmium in the solution id samples. <u>ium compounds</u> Package materials *2 Applications other than those for rank B (package materials) and rank C [rustproof treatment on plating surface, element of ink and paints] -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.	DES and from sample, and 100ppm	m the calibration convert into the Immediate	curve prepare cadmium cont				
	2	Hexavalent	by the in sol chrom B B C [Exce Subs (Anal (1) Si [Equi Spec	mary] Completely dissolve and analyze samples. In the event that any resi fusion method, etc. Introduce the prepared solution sample into the ICP-C e standard solution, measure the concentration of cadmium in the solution id samples. ium compounds Package materials *2 Applications other than those for rank B (package materials) and rank C [rustproof treatment on plating surface, element of ink and paints] -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. eptions] tances in equipment, tools, jigs, dies etc., when there is no possibility of the ysis method) imple analysis (screening measurement) [Method] X-ray fluorescent spectr pment] Energy Dispersive X-ray Fluorescence Spectrometer and wave len trometer	DES and froi sample, and 100ppm 1000ppm interpretation eir becoming roscopy igth dispersi	n the calibration convert into the Immediate Immediate g contained in a we X-ray Fluores	IEC62474 **				
	2	Hexavalent	by the in sol chrom B B C C C C C C C C C C C C C C C C C	mary] Completely dissolve and analyze samples. In the event that any resi fusion method, etc. Introduce the prepared solution sample into the ICP-C e standard solution, measure the concentration of cadmium in the solution id samples. ium compounds Package materials *2 Applications other than those for rank B (package materials) and rank C [rustproof treatment on plating surface, element of ink and paints] -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. ptions] tances in equipment, tools, jigs, dies etc., when there is no possibility of the ysis method) imple analysis (screening measurement) [Method] X-ray fluorescent spectr pment] Energy Dispersive X-ray Fluorescence Spectrometer and wave len	DES and from sample, and 100ppm 1000ppm inter becoming roscopy light dispersion nined volume contained as armic member tware (calibo	n the calibration convert into the Immediate Immediate Immediate g contained in a we X-ray Fluores and weight and swell as the ord rs. Using semi- ation curve met	IEC62474 */				

Classification	No.	Substance group	Rank	Applications	Threshold value *1	Date of restriction	Remarks	
	3	Lead and le					IEC62474 *12	
Metals and metal			B	Paints, inks, plastics, package materials *2 Batteries installed to Kyocera's products and shipped to Kyocera's	100ppm *3	Immediate Immediate		
compounds			В	customer. Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC.	1000ppm	Immediate		
			В	Lead used in C-press compliant pin connector systems.	1000ppm	Immediate		
			В	Lead used in other than C-press compliant pin connector systems.	1000ppm	Immediate	-	
			В	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a leadcontent of more than 80 % and less than 85 % and the package of microprocessors with a leadcontent of more than 80 % and less than 85 % by weight.	1000ppm	Immediate		
			В	Lead in linear incandescent lamps with silicate coated tubes.	1000ppm	Immediate	-	
			В	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba) 2 MgSi 2 O 7	1000ppm	Immediate		
			В	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (ESL).	1000ppm	Immediate		
			В	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs).	1000ppm	Immediate	-	
			В	Lead in finishes of fine pitch components other than connectors with a	1000ppm	Immediate		
			В	pitch of 0.65 mm and less. Lead oxide in the glass envelope of black light blue lamps.	1000ppm	Immediate	4	
			В	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.	1000ppm	Immediate		
			В	Applications other than those for rank B (paints, inks, plastics, package materials) and rank C [surface treatment and solders for external electrodes and lead terminals of components]	1000ppm	Immediate		
			В	The PZT lead-based dielectric ceramic capacitor to be used for discrete components, in an integrated circuit device (lead zirconate titanate)	1000ppm	Immediate		
			В	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications.	1000ppm	Immediate		
			В	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications.	1000ppm	Immediate		
			В	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring.	1000ppm	Immediate	-	
			В	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting).	1000ppm	Immediate		
			В	Lead in solders for the soldering of thin copper wires of 100 μm diameter and less in power transformers.	1000ppm	Immediate		
			С	 Electroless nickel/gold plating; electrolytic gold plating; parts, materials and chemicals used for such plating; Lead in glass of cathode ray tubes. 	-	_		
				 Lead in glass of fluorescent tubes not exceeding 0.2 % by weight . Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0.35 % lead by weight. 				
				 -Lead as an alloying element in aluminium containing up to 0.4 % lead by weight. - Copper alloy containing up to 4 % lead by weight. 				
				- Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead).				
				 Lead in solders for servers, storage and storage array systems, Network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications. 				
				- 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.				
				 Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher. 				
				 Lead in white glasses used for optical applications. Lead in filter glasses and glasses used for reflectance standards. Lead in ion coloured optical filter glass types 				
				lead in glazes used for reflectance standards 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 mm2 or larger in any semiconductor technology			
				node; - stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger.				
					 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 2 O 5 :Pb) 			
					- Lead in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses.			
				 Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors. Lead bound in crystal glass as defined in Annex I (Categories 1,2,3 				
				 and 4) of Council Directive 69/493/EEC(1). - Lead in cermet-based trimmer potentiometer elements. - Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body. 				

Classification	No.	Substance group	ank Applications	Threshold value *1	Date of restriction	Remarks
Metals and	3	Lead and le	l compounds			IEC62474 *12
metal compounds			Exceptions] ubstances in equipment, tools, jigs, dies etc., when there is no possibility o	f their becomin	a contained in a	anv products.
ompoundo			Analysis method)		5	<i></i>
			I) Simple analysis (screening measurement)			
			/lethod] X-ray fluorescent spectroscopy Equipment] Energy Dispersive X-ray Fluorescence Spectrometer and wave	lenath dispersi	ve X-rav Fluore	scence
			pectrometer	•		
			Summary] After cutting and pulverizing samples, collect samples of a prede a analysis equipment; this enables analysis as to whether or not lead is co		-	-
			mplified manner. This is suited for analysis of resin, rubber, metal, glass,			•
			nalysis software (fundamental parameter method) and quantitative analysis	software (calib	ration curve me	thod) incorporate
			ı the equipment, measure the content. 2) Detailed analysis (quantitative analysis)			
			Method] ICP optical emission spectrometry			
			Equipment] ICP optical emission spectrometer (ICP-OES), ICP mass spect	rometer (ICP-N	IS), atomic abso	orption
			pectrometer (AAS) Summary] Completely dissolve and analyze samples. In the event that any	esidue is aene	rated. complete	lv dissolve bv an
			kali fusion method, etc. Introduce the prepared solution sample into the ICI	P-OES, and fro	m the calibration	n curve prepareo
			y the standard solution, measure the concentration of lead in the solution s	ample, and con	vert into the lead	d content in solid
			amples.			
	4	Mercury an	mercury compounds	100		IEC62474 *1
			 B Paints, inks, plastics, package materials *2 B Batteries installed to Kyocera's products and shipped to Kyocera's 	100ppm *3	Immediate Immediate	+
			customer.	0	ininodicio	
			B - Mercury in other fluorescent lamps not exceeding (per lamp)	1000ppm	Immediate	
			-Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 1 mg	U		
			B - Mercury in other fluorescent lamps not exceeding (per lamp)	1000ppm	13/04/2016	†
			Non-linear halophosphate lamps (all diameters): 15 mg			1
			B Mercury in High Pressure Mercury (vapour) lamps (HPMV)	1000ppm	13/04/2015	4
			B Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display.	1000ppm	Immediate	
			 B Applications other than those for rank B (paints, inks, plastics, packag 	e 1000ppm	Immediate	1
			materials) and rank C			1
			C - Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	, –	_	
			• For general lighting purposes < 30 W: 2.5 mg			
			 For general lighting purposes ≥ 30 W and < 50 W: 3.5 mg 			
			 For general lighting purposes ≥ 50 W and < 150 W: 5 mg For general lighting purposes ≥ 150 W: 15 mg 			
			• For general lighting purposes with circular or square structural shape			
			and tube diameter ≤ 17 mm:7 mg			
			For special purposes: 5 mg			
			Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):			
			• Tri-band phosphor with normal lifetime and a tube diameter < 9 mm:4			
			mg			
			 Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm a ≤ 17 mm :3 mg 	na		
			•Tri-band phosphor with normal lifetime and a tube diameter > 17 mm			
			and ≤ 28 mm:3.5 mg			
			 Tri-band phosphor with normal lifetime and a tube diameter > 28 mm:3.5mg 			
			 Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg 			
			 Mercury in other fluorescent lamps not exceeding (per lamp): Non-linear tri-band phosphor lamps with tube :ires on 31 December 			
			2012; 3,(*)diameter > 17 mm:15mg			
			·Lamps for other general lighting and special purposes (e.g. induction			
			lamps):15mg • Mercury in cold cathode fluorescent lamps and external electrode			
			 Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding 	ng		
			(per lamp):	5		
			• Short length (\leq 500 mm):3.5 mg			
			 Medium length (> 500 mm and ≤ 1 500 mm): 5 mg Long length (> 1 500 mm):13 mg 			
			Mercury in other low pressure discharge lamps (per lamp) :15mg			
			•Mercury in High Pressure Sodium (vapour) lamps for general lighting			
			purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60			
			• P ≤ 155 W:30 mg			
			• 155 W < P ≤ 405 W:40 mg • P > 405 W:40mg			
			•Mercury in other High Pressure Sodium (vapour) lamps for general			
			lighting purposes not exceeding (per burner):			
			• P ≤ 155 W:30 mg			
			• 155 W < P ≤ 405 W:40 mg • P > 405 W:40mg			
			 P > 405 W:40mg Mercury in other High Pressure Sodium (vapour) lamps for general 			
			lighting purposes not exceeding (per burner):			
			•P 155 W:25 mg			
			• 155 W < P ≤ 405 W:30 mg • P > 405 W:40mg			
			Mercury in metal halide lamps (MH);			
			Mercury in other discharge lamps for special purposes not specifically	'		
	i i	1	mentioned in rank C	1		1

Classification	No.	Substance group	Rank	Applications	Threshold value *1	Date of restriction	Remarks
Metals and	4	Mercury ar		rcury compounds			IEC62474 *13
metal			-	eptions] tangga in aguinment, tagla, liga, diag ata, juhan thara ia na nagaihilitu of th	air baaamin	a contained in a	nu producto
compounds				tances in equipment, tools, jigs, dies etc., when there is no possibility of the ysis method)		g contained in a	ny products.
			`	imple analysis (screening measurement)			
			` '	od] X-ray fluorescent spectroscopy			
				pment] Energy Dispersive X-ray Fluorescence Spectrometer and wave len	gth dispersi	ve X-ray Fluores	scence
			•	trometer mary] After cutting and pulverizing samples, collect samples of a predetern		a and waight an	d autido thors inte
			-	nalysis equipment; this enables analysis as to whether or not mercury is co		0	•
				ified manner. This is suited for analysis of resin, rubber, metal, glass, cera			
			-	sis software (fundamental parameter method) and quantitative analysis sof	ware (calib	ration curve met	hod) incorporate
				equipment, measure the content. etailed analysis (quantitative analysis)			
			` '	od] ICP optical emission spectrometry			
			-	pment] ICP optical emission spectrometer combined with reduction aeratio	n (ICP-OES	8), atomic absor	otion spectrome
				ined with reduction aeration (AAS), ICP mass spectrometer (ICP-MS)			
				mary] Using a decomposition flask equipped with a pressure-decomposer ury, decompose the sample by sulfuric acid or nitric acid, and bring the sa			
				le by ICP-OES. In the case of traces of mercury, measure mercury by IC			
				eduction aeration (ICP-OES) oratomic absorption spectrometer combined	•	•	
			coexi	sting elements may interfere and verification is required). From the calibra	ation curve	prepared by the	standard solution
			meas	ure the concentration of mercury in the solution sample, and convert into t	ne mercury	content in solid	samples.
	_	Triantation			<u></u>	de en d	15000474 *44
	5		•	anotin compounds (including Bis (tri-n-butyltin) oxide (TBTO)tributyltin (TB compounds)) compoun	ds and	IEC62474 *12 *9
		arpricityiuri	В	All applications	1000ppm	Immediate	REACH
						initioulate	(Restriction)
	6	Dibutyltin (D					IEC62474 *12
			В	If the concentration of DBT compounds exceeds 0.1wt%, upon	-	Immediate	REACH
			C	calculation of Sn weight in the article and all related parts. All applications other than rank B.	_	_	(Restriction)
	7	Dioctyltin (E					IEC62474 *13
			В	The following products and parts used by the general public or the	-	Immediate	IEC62474 *12
				general public use, which containing the DOT over the 0.1Wt% in terms			REACH
				of weight of tin . *Textile products for skin contact			(Restriction)
				• Gloves			
				Part of the footwear or footwear for skin contact			
				•Wallpaper and floor agent			
			С	• RTV-2 mold kit All applications other than rank B.			
	8	Organotin c		unds other than Bis (tri-n-butyltin) oxide (TBTO), Tributyltins (TBTs) and tri	ohenvlti		
	•	organourro		All applications		_	
	9	Cobalt dich					IEC62474 *12
			В	Cobalt dichloride contained in desiccant agent and/or humidity indicator	_	Immediate	
			С	that are shipped with Kyocera's products to Kyocera's customer. All applications other than rank B.	_	_	
	10	Antimony a		imony compounds			
			nd ant C	imony compounds All applications	_	_	
			nd ant C I arse	All applications nic compounds	-	-	IEC62474 *12
			nd ant C	All applications nic compounds All applications	-	- 01/07/2014	REACH
			nd ant C I arse	All applications nic compounds All applications <chemical substances=""></chemical>	_	- 01/07/2014	REACH
			nd ant C arse B	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide</chemical>	-	01/07/2014	
	11	Arsenic and	nd ant C arse B C	All applications nic compounds All applications <chemical substances=""></chemical>	-		REACH
	11	Arsenic and Beryllium ar	nd ant C I arse B C nd ber C	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications</chemical>			REACH (Authorization) IEC62474 *12
	11	Arsenic and Beryllium ar	nd ant C d arse B C nd ber C d bism	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications nuth compounds</chemical>	—	-	REACH (Authorization) IEC62474 *12
	11 12 13	Arsenic and Beryllium ar Bismuth and	nd ant C arse B C d bism C	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications nuth compounds All applications</chemical>			REACH (Authorization) IEC62474 *12 IEC62474 *12
	11 12 13	Arsenic and Beryllium ar Bismuth and	nd ant C arse B C d ber C d bism C nickel	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications nuth compounds</chemical>	—	-	REACH (Authorization)
	11 12 13	Arsenic and Beryllium ar Bismuth and	nd ant C arse B C d ber C d bism C nickel	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications nuth compounds All applications compounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than</chemical>	—	-	REACH (Authorization) IEC62474 *12 IEC62474 *12
	11 12 13	Arsenic and Beryllium ar Bismuth and	nd ant C arse B C d ber C d bism C nickel B	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications nuth compounds All applications compounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than 0.5 µg/cm2/week;</chemical>	—	-	REACH (Authorization) IEC62474 *12 IEC62474 *12 IEC62474 *12
	11 12 13 14	Arsenic and Beryllium ar Bismuth and Nickel and r	nd ant C arse B C d bism C d bism C hickel B	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications All applications uth compounds All applications compounds all applications compounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than 0.5 μg/cm2/week; All applications other than rank B.</chemical>	—	-	REACH (Authorization) IEC62474 *1: IEC62474 *1: IEC62474 *1:
	11 12 13 14	Arsenic and Beryllium ar Bismuth and Nickel and r	nd ant C d arsee B C d berr C d bism C nickel B C nickel	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications In applications All applications outh compounds All applications outh compounds All applications ocmpounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than 0.5 µg/cm2/week; All applications other than rank B. enium compounds</chemical>	-	 Immediate	REACH (Authorization) IEC62474 *1: IEC62474 *1: IEC62474 *1:
	11 12 13 14	Arsenic and Beryllium ar Bismuth and Nickel and r Selenium ar	nd ant C I arsee B C d berr C d bism C d bism C nickel B C c c c	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications In applications value All applications outh compounds All applications compounds All applications compounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than 0.5 µg/cm2/week; All applications other than rank B. enium compounds All applications other than rank B.</chemical>	-		REACH (Authorization) IEC62474 *12 IEC62474 *12 IEC62474 *12
	11 12 13 14	Arsenic and Beryllium ar Bismuth and Nickel and r Selenium ar	nd ant C I arsee B C d berr C d bism C d bism C nickel B C c c c	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications In applications All applications outh compounds All applications outh compounds All applications ocmpounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than 0.5 µg/cm2/week; All applications other than rank B. enium compounds</chemical>	-	 Immediate	REACH (Authorization) IEC62474 *1: IEC62474 *1: IEC62474 *1:
	11 12 13 14	Arsenic and Beryllium an Bismuth and Nickel and r Selenium an Thallium and	Ind ant C arsee B C d berr C d bism C d bism C nickel B C d thalli C hroma	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications uth compounds All applications compounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than 0.5 µg/cm2/week; All applications other than rank B. enium compounds All applications um compounds All applications um compounds All applications ate octahydroxide</chemical>	- - -		REACH (Authorization) IEC62474 *11 IEC62474 *11 IEC62474 *11 IEC62474 *11
	11 12 13 14 15 16 17	Arsenic and Beryllium ar Bismuth and Nickel and r Nickel and r Thallium and Pentazinc c	and anti C I arsee B C C d bism C C d bism C C nickel B C C d thalli C C d thalli C C d thalli C C d thalli C C d arse c d arse c d arse c	All applications nic compounds All applications <chemical substances=""> Diarsenic trioxide, Diarsenic pentaoxide All applications other than rank B. yllium compounds All applications uth compounds All applications compounds *5 if the rate of nickel release from the parts of these products coming into direct and prolonged contact with the skin is greater than 0.5 µg/cm2/week; All applications other than rank B. enium compounds All applications uth compounds All applications</chemical>	- - -		REACH (Authorization) IEC62474 *12 IEC62474 *12 IEC62474 *12

Classification	No.	Substance group	Rank	Applications	Threshold value *1	Date of restriction	Remarks
Halogenated	19	Polybromin	ated b	I iphenyls (PBBs)			IEC62474 *12
				All applications	1000ppm	Immediate	1
			`	lysis method)			
			• •	implified Simple analysis (screening measurement) nod] X-ray fluorescent spectroscopy			
			-	ipment] Energy Dispersive X-ray Fluorescence Spectrometer			
				mary] Implement simple pretreatment on samples, such as cutting, pulveriz	zing, etc., co	ellect samples of	a predetermined
				ne and weight and guide them into the analysis equipment; this enables ana	,		
				ained as well as the order analysis in a simplified manner. This is suited fo mic members.	r analysis of	resin, rubber, i	metal, glass,
				g semi-quantitative analysis software (fundamental parameter method)and c	uantitative a	analvsis softwar	e (calibration curve
				od) incorporated in the equipment, measure the content of total bromine. 1	•	•	•
				Int of PBB or PBDE but for measuring the amount of total bromine.			
				letailed analysis (quantitative analysis) nod] Gas chromatography			
			-	ipment] High-resolution gas chromatograph/high-resolution mass spectrom	eter (HRGC))	
			-	mary] For the pretreatment method, freeze samples, freeze and pulverize i	•		
				ct by the inorganic solvent. Add 13C12 labeled internal standard to the sar	mple solution	i, and analyze b	y a high-resolution
			doup	le-focusing mass spectrometer.			
	20	Polybromin	ated d	liphenyl ethers (PBDEs)			IEC62474 *12
				All applications	1000ppm	Immediate	
			`	lysis method)			
			• •	imple analysis (screening measurement) nod] X-ray fluorescent spectroscopy			
			-	pment] Energy Dispersive X-ray Fluorescence Spectrometer			
				mary] After cutting and pulverizing samples, collect samples of a predeterr	nined volume	e and weight an	d guide them into
				nalysis equipment; this enables analysis as to whether or not bromine is co			•
				ified manner. This is suited for analysis of resin, rubber, metal, glass, cera		•	
				vsis software (fundamental parameter method) and quantitative analysis sof e equipment, measure the content of total bromine. This method is not inter	•		, ,
				E but for measuring the amount of total bromine.		acarnig are arre	
				etailed analysis (quantitative analysis)			
			-	nod] Gas chromatography			
				ipment] High-resolution gas chromatograph/high-resolution mass spectromo imary] For the pretreatment method, freeze samples, freeze and pulverize i	· · ·		ns dissolve and
			-	ct by the inorganicsolvent. Add 13C12 labeled internal standard to the same	•		
			doub	le-focusing mass spectrometer.			
	21	Polychlorin	ated b	iphenyls (PCBs)			IEC62474 *12
	~ '						
				All applications	_	Immediate	*9
	22		В	All applications aphthalenes (Cl >= 3)		Immediate	
	22		В	aphthalenes (Cl >= 3)	_	Immediate	*9 IEC62474 *12 Industrial Safety
		Polychlorina	B ated n B	aphthalenes (Cl >= 3) All applications	_		*9 IEC62474 *12 Industrial Safety and Health Law*8
	22 23	Polychlorina	B ated n B chlor	aphthalenes (Cl >= 3) All applications inated paraffins *6	-	Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12
		Polychlorina Short chain	B ated n B chlor B	aphthalenes (Cl >= 3) All applications	-		*9 IEC62474 *12 Industrial Safety and Health Law*8
	23 24	Polychlorina Short chain Brominated	B ated n B chlor B flame C	aphthalenes (Cl >= 3) All applications inated paraffins *6 All applications retardants *7 All applications	- - -	Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12
	23	Polychlorina Short chain Brominated	B ated n B chlor B flame C Flame	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR)	- -	Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 IEC62474 *12
	23 24 25	Polychlorina Short chain Brominated	B ated n B chlor B flame C Flame C	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications		Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12
	23 24	Polychlorina Short chain Brominated	B ated n B chlor B flame C Flame C	aphthalenes (Cl >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications gener (PVC)		Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 IEC62474 *12
Others	23 24 25	Polychlorina Short chain Brominated	B ated n B chlor B flame C Flame C c de pol	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications ymer (PVC) All applications		Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 IEC62474 *12
Others	23 24 25 26	Polychlorina Short chain Brominated Chlorinated Vinyl chlorid	B ated n B chlor B flame C Flame C c de pol	aphthalenes (Cl >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications gener (PVC)		Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 REACH(SVHC) IEC62474 *12 IEC62474 *12 IEC62474 *12 Industrial Safety
Others	23 24 25 26	Polychlorina Short chain Brominated Chlorinated Vinyl chlorid	B ated n B chlor B flame C Flame C C de pol C B	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications ymer (PVC) All applications All applications		Immediate Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 IEC62474 *12 REACH(SVHC)
Others	23 24 25 26	Polychlorina Short chain Brominated Chlorinated Vinyl chlorid	B ated n B Chlor B flame C C C C C C B (Anal	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications ymer (PVC) All applications		Immediate Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 REACH(SVHC) IEC62474 *12 IEC62474 *12 IEC62474 *12 Industrial Safety
Others	23 24 25 26	Polychlorina Short chain Brominated Chlorinated Vinyl chlorid	B ated n B Chlor Flame C C C C C B (Anal (1) A	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications ymer (PVC) All applications All applications ymer (PVC) All applications Visis method)		Immediate Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 REACH(SVHC) IEC62474 *12 IEC62474 *12 IEC62474 *12 Industrial Safety
Others	23 24 25 26	Polychlorina Short chain Brominated Chlorinated Vinyl chlorid	B ated n B chlor B flame C Flame C Flame C C de pol C C (Anal (1) A [Mettr (Circ	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications vmer (PVC) All applications Vmer (PVC) All applications It applications Vmer (PVC) All applications Inalysis of asbestos content in natural mineral products vod Analysis method of asbestos content in natural mineral products vod No. 0828001 (August 28, 2006) by the Director of the Chemical Hazard	rds Control [Immediate Immediate Immediate Immediate Immediate Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 REACH(SVHC) IEC62474 *12 IEC62474 *12 Idustrial Safety and Health Law*9
Others	23 24 25 26	Polychlorina Short chain Brominated Chlorinated Vinyl chlorid	B ated n B chlor B flame C C C de pol C C de pol C (Anal (1) A [Mettr (Circ Indu	aphthalenes (CI >= 3) All applications inated paraffins *6 All applications retardants *7 All applications e Retardants (CFR) All applications ymer (PVC) All applications All applications Vmer (PVC) All applications Visis method) nalysis of asbestos content in natural mineral products ood] Analysis method of asbestos content in natural mineral products ular No. 0828001 (August 28, 2006) by the Director of the Chemical Hazar strial Safety and Health Department, Labour Standards Bureau, Ministry of	rds Control [Immediate Immediate Immediate Immediate Immediate Immediate	*9 IEC62474 *12 Industrial Safety and Health Law*8 IEC62474 *12 *9 IEC62474 *12 REACH(SVHC) IEC62474 *12 IEC62474 *12 Idustrial Safety and Health Law*9
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Classification		Substance group	Rank	Applications	Threshold value *1	Date of restriction	Remarks
Others	34			ne and its salt All applications	10000ppm	Immediate	Industrial Safety and Health Law*8
	35	Benzene		Rubber cement contains benzene (The amount of benzene is more than 5% weight of solvent in the rubber cement) (including diluted solution)	50000ppm	Immediate	Industrial Safety and Health Law*8
	36	Azo dyes th		erate certain specific amines *8 Applications that involve the possibility of the substance directly contacting human skin or buccal cavity for long time	-	Immediate	IEC62474 *12 REACH (Authorization)
	37	Radioactive	subst B	ances Except for instrument-related applications		Immediate	IEC62474 *12
				Instrument-related applications	_		
	38	Phthalates *					IEC62474 *12
			В	All applications containing the following four substances: Purchased items separately designated by our Company may be treated as Rank C. Additionally, threshold values for each regulation are as shown below; %RoHS Directive: Content concentration for 1 regulated substance must than 1000 ppm %REACH Regulation: Total content concentration for 4 regulated substance be less than 1000 ppm <target substance=""> -Dibutyl phthalate: DBP(CAS No84-74-2) -Di (2-ethylhexyl) phthalate: DEHP(CAS No117-81-7) -Butyl benzyl phthalate: DBP(CAS No85-68-7) -Diisobutyl phthalate: DIBP(CAS No84-69-5) All applications containing phthalic acid esters other than chemical substances designated as Rank B</target>	be less	Immediate	REACH (Restriction) RoHS Directive
	39	Trichloroeth	ylene				
	10	-		All applications	-	Immediate	
	40	Tetrachloroe	ethyler B	All applications		Immediate	<u> </u>
	41	Dichloromet				minediate	<u> </u>
			В	All applications other than rank C -Residue in polycarbonate resin	_	Immediate _	
			С	-Residue of dichloromethane used as a solvent in manufacturing process			
				of LCD polarizer and removed.			
	42	Dioxins	_				
	43	Perfluorooc		All applications ulfonate (PFOS) and its salts		Immediate	IEC62474 *12
	10	- ornaorooo		Intentional use			*9
			В	Within articls or parts	100ppm	Immediate	Stockholm
				Surface Preparation	1µ g/m2		Convention on
			С	- Semiconductor resists	-	-	Persistent
			С	- Etching agents for semiconductors (limited to	-	-	Organic
			С	 Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) 	_	_	
	44	Perfluorooc	-	 Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes 	_	_	Organic Pollutants
	44	Perfluorooc	tane s	 Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) 	_	_ Immediate	Organic
	44	Perfluorooc Hexachlorob	tane s B penzer	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications re	_	_ Immediate	Organic Pollutants
			tane s B penzer	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications All applications other than rank C	-	- Immediate Immediate	Organic Pollutants *9
			tane s B benzer B	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly	-		Organic Pollutants *9
		Hexachlorob	tane s B Denzer B C	- Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) - Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications e All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such		Immediate —	Organic Pollutants *9
	45	Hexachlorot 1,2,3,4,10,1	tane s B penzer B C 0-Hex B	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) - Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications re All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications		Immediate – vn as Aldrin) Immediate	Organic Pollutants *9 *9 *9 *9
	45	Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1	tane s B penzer B C 0-Hex 0-Hex	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The test of the main semiconductors of the environment of the environment of the environment of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. acholro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications		Immediate – vn as Aldrin) Immediate	Organic Pollutants *9 *9
	45	Hexachlorot 1,2,3,4,10,1	tane s B Denzer B C 0-Hex 0-Hex ieldrin	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) - Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications Te All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications acchloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethano-)		Immediate – vn as Aldrin) Immediate ene (also	Organic Pollutants *9 *9 *9 *9
	45 46 47	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D	tane s B penzer B C 0-Hex ieldrin B	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethan) All applications		Immediate – vn as Aldrin) Immediate ene (also Immediate	Organic Pollutants *9 *9 *9 *9
	45	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D	tane s B penzer B C 0-Hex ieldrin B 0-Hex	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) - Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications Te All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications acchloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethano-)		Immediate – vn as Aldrin) Immediate ene (also Immediate	Organic Pollutants *9 *9 *9 *9 *9 *9
	45 46 47	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1	tane s B Denzer B C 0-Hex ieldrin B 0-Hex ndrin)	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethan) All applications		Immediate – vn as Aldrin) Immediate ene (also Immediate	Organic Pollutants *9 *9 *9 *9 *9 *9
	45 46 47 48	Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E	tane s B penzer B C C 0-Hex ieldrinn B 0-Hex ndrin) B oro-2,	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achcloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethana) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethana All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahy		Immediate – vn as Aldrin) Immediate ene (also Immediate alene (also Immediate	Organic Pollutants *9 *9 *9 *9 *9 *9
	45 46 47 48 49	Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichl	tane s B penzer B C O-Hex B O-Hex B O-Hex nor-Hex nor-Hex B B	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) - Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications Te All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-1,4-endo-5,8-dimetha	e (also knov	Immediate 	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichle Mixture of 1	tane s Boenzer B C 0-Hex ieldrin B 0-Hex ieldrin B 0-Hex ieldrin B 0-Hex ieldrin B 0, 14 8 0, 14 8 0, 14 8 0, 14 10 10 10 10 10 10 10 10 10 10 10 10 10	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha adhloro-6,7,9,8,8-Octachloro-2,3,3,4,7,7a-hexahydro-4,7-methano-1H-indene,1,4,5,4,5,8,8-Octachloro-2,8,3,4,7,7a-hexahydro-4,7-methano-1H-indene,1,4,5,4,5,6,7,8,8-Octachloro-2,8,3,4,7,7a-hexahydro-4,7-methano-1H-indene,1,4,5,4,5,6,7,8,8-Octachloro-2,8,3,4,7,7a-hexahydro-4,7-meth		Immediate 	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48 49	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichle Mixture of 1	tane s B enzer B C C 0-Hex ieldrin B 0-Hex ieldrin B 0-Hex ieldrin B 0-Hex z,4,5 trahyd	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. Cachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4,4		Immediate 	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48 49 50	Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1 4,2,3,4,10,1 4,2,3,4,10,1 4,0000 as D 1,2,3,4,10,1 4,0000 as D 1,1,1-Trichl 1,1,1-Trichl Mixture of 1 3a,4,7,7a-te	tane s B enzer B C C 0-Hex ieldrin B 0-Hex ndrin) B oro-2, 2,4,5 trahy(B	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha achloro-6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4,4 achloro-1,4,4a,5,6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4,4 achloro-1,4,4a,5,6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4,4 achlor		Immediate Immediate Immediate ene (also Immediate alene (also Immediate Immediate Immediate Immediate ptachloro- or Heptachlor) Immediate	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9
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	45 46 47 48 49 50	Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1 4,2,3,4,10,1 4,2,3,4,10,1 4,0000 as D 1,2,3,4,10,1 4,0000 as D 1,1,1-Trichl 1,1,1-Trichl Mixture of 1 3a,4,7,7a-te	tane s B Denzer B C C O-Hex eldrin B O-Hex ieldrin B 0-Hex eldrin B cro-2, , B z,4,5 B g-phe B B t-buty	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha All applications achloro-1,4-endo-5,8-dimetha All applications achloro-1,4-endo-5,8-dimetha All applications achloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene,1,4, fro-4,7-methano-1H-indeneand their analogouscompounds (also known as All applications nylenediamine,N-tolyl-N'-xylyl-p-phenylenediamine, or N,N'-dixylyl-p-phenylenediamine, or N,N'-di		Immediate 	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48 49 50 51 52	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichla Mixture of 1 3a,4,7,7a-te N,N'-Ditolyl- 2,4,6-Tri-ter	tane s B enzer B C C 0-Hex ieldrin B 0-Hex ieldrin B 0-Hex s c-2, B 2,4,5 trahyo B B B B B	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. Cachoro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4, dro-4,7-methano-1H-indeneand their analogouscompounds (also known as All applications phenol All applications		Immediate 	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48 49 50 51	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichla Mixture of 1 3a,4,7,7a-te N,N'-Ditolyl- 2,4,6-Tri-ter	tane s B enzer B C C 0-Hex ieldrin B 0-Hex ieldrin B 0-Hex ndrin) B c-2,2,4,5 trahyy B p-phe B B 2,2-dir B 2,2-dir	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications e All applications other than rank C In the case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha (All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha (All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha (All applications (achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha (All applications (All applicatio		Immediate	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48 49 50 51 52	Hexachlorob 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichl Mixture of 1 3a,4,7,7a-te N,N'-Ditolyl- 2,4,6-Tri-ter Polychloro-	tane s B Denzer B C C D-Hex ndrin) B O-Hex ndrin) B ro-2, B strahyc B p-phe B t-buty B B 2,2-dif B B	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. Cachoro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4, dro-4,7-methano-1H-indeneand their analogouscompounds (also known as All applications phenol All applications		Immediate 	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48 49 50 51 52 53 54	Hexachlorot Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichl Mixture of 1 3a,4,7,7a-te N,N'-Ditolyl- 2,4,6-Tri-ter Polychloro- Dodecachlo	tane s B Denzer B C C O-Hex B O-Hex ieldrin B O-Hex ieldrin B C-Hex ieldrin B C-Hex B C-Hex B C-Hex B C-Hex B C C B C C B C C B C C B C C C C C C	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4, dro-4,7-methano-1H-indeneand their analogouscompounds (also known as All applications nylenediamine, N-tolyI-N'-xylyI-p-phenylenediamine, or N,N'-dixylyI-p-pheny All applications methyl-3-methylidenebicyclo[2.2.1]heptane (also known as Toxaphene) All applications acyclo [5,3.0.02,6.03,9.04,8] decane (also known as Mirex) All applications acyclo [5,3.0.02,6.03,9.04,8] decane (also known as Mirex) All applications		Immediate	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9
	45 46 47 48 49 50 51 52 53 54	Hexachlorot Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichl Mixture of 1 3a,4,7,7a-te N,N'-Ditolyl- 2,4,6-Tri-ter Polychloro- Dodecachlo	tane s B B Denzer B C C O-Hex Ieldrin B O-Hex Ieldrin B O-Hex B C-Hex B C-Hex B C-Hex B C-Hex B C-Hex B C C C B C C C B C C C B C C C C C C	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The case that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. achloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalen All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimetha) All applications achloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-4,7-methano-1H-indene,1,4, dro-4,7-methano-1H-indeneand their analogouscompounds (also known as All applications nylenediamine, or N,N'-dixylyl-p-phenylenediamine, or N,N'-dixylyl-p-phenyl All applications methyl-3-methylidenebicyclo[2.2.1]heptane (also known as Toxaphene) All applications tacyclo [5.3.0.02,6.03,9.04,8] decane (also known as Mirex) All applications 1- bis(4-chlorophenyl) ethanol(also known as Kelthane or Dicofol)		Immediate	Organic Pollutants *9
	45 46 47 48 49 50 51 52 53 54	Hexachlorot Hexachlorot 1,2,3,4,10,1 1,2,3,4,10,1 known as D 1,2,3,4,10,1 known as E 1,1,1-Trichl Mixture of 1 3a,4,7,7a-te N,N'-Ditolyl- 2,4,6-Tri-ter Polychloro- Dodecachlc	tane s B B o-Hex B C C C D-Hex ieldrin B O-Hex ieldrin B D-Hex ieldrin B D-Hex B C 2,2,4,5 trahyo B B 2,2-dir B B C 2,2-dir B B D-Hex B D D-Hex B D D D D B D D D B D D D B D D D B D D D D B D	Etching agents for semiconductors (limited to voltage filters and high-frequency compound semiconductors) Photo films for industrial purposes ulfonyl fluoride(PFOSF) All applications The asset that small amounts are included as a by-product, and there is no risk of causing damage to the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. The asset of the growth or habitat of animals and plants or risk to human health through pollution of the environment due to such by-products, and the level of content ratio is deemed to be feasibly reduced by all industrial and economical means. The applications		Immediate	Organic Pollutants *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9

Classification	No.	Substance group Rank	Applications	Threshold value *1	Date of restriction	Remarks
Others	57	В	ızotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- All applications	-	Immediate	
	58	Pentachlorobenzer	ne All applications	_	Immediate	*9
	59	r-1,c-2,t-3,c-4,t-5,t	t-6-hexachlorocyclo hexane(Alphahexachlorocyclohexane)			*9
	60		All applications t-6-hexachlorocyc lohexane (Betahexachlorocyclohexane)	-	Immediate	*9
		В	All applications	-	Immediate	
	61		,t-6-hexachlorocyclohexane(Gamma hexachlorocyclohexane or lindane) All applications	_	Immediate	*9
	62	Decachloropentac	yclo [5.3.0 2,6.03,9,04,8] decane-5-one(Chlordecone)		minediate	*9
	63		All applications rinitro-m-xylene [musk xylene]	-	Immediate	REACH
	05		All applications	-	Immediate	(Authorization)
	64	Tris(2-chloroethyl) B	phosphate All applications	-	Immediate	REACH (Authorization)
	65	PFC, SF6,HFC	All applications	_	_	
	66	Formaldehyhde				-
	67	C Perchlorate compo	Composite wood products or components ounds	-	-	IEC62474 *12
		C	All applications	-	_	
	68	2,4-Dinitrotoluene	All applications	_	_	
	69	Anthracene oil				
	70		All applications thracene paste, distn. Lights	-	_	
	70		All applications	-	—	
	71		thracene paste, anthracene fraction	-		
	72	Anthracene oil, an	All applications	_		
		C	All applications	-	_	
	73	Anthracene oil, an	All applications	_	_	
	74	Aluminosilicate, Re	efractory Ceramic Fibres			IEC62474 *12
	75		All applications ilicate, Refractory Ceramic Fibres	-		REACH(SVHC IEC62474 *12
	75		All applications	-	—	REACH(SVHC
	76	Coal tar pitch, high		_	_	
	77	C Acrylamide	All applications	_	_	
			All applications	-	_	
	78	Dimethyl fumarate	(DMF) All applications	_	Immediate	IEC62474 *13
	79	Hexabromocyclod	odecane (HBCDD)			IEC62474 *1
	80		All applications	-	Immediate	REACH (Authorization REACH
		В	When any of the above PAH are included at more than 1ppm in rubber or plastic components which come in contact with human skin or the oral cavity directly, either for a long time or short period of time. <chemical substances=""> •Benzo[a]pyrene (BaP) •Benzo[a]pyrene (BeP) •Benzo[a]anthracene (BaA) •Chrycene (CHR) •Benzo[b]fluoranthene (BJFA) •Benzo[J]fluoranthene (BJFA) •Benzo[k]fluoranthene (BKFA) •Dibenzo[a,h]anthracene (DBAhA)</chemical>	1ppm	Immediate	(Restriction)
	81	Boric acid	All applications other than rank B / PAHs other than rank B	-	-	IEC62474 *1
	-	С	All applications	-	_	REACH(SVHC
	82	Disodium tetrabora	ate, anhydrous All applications	_	_	IEC62474 *1 REACH(SVH0
			um heptaoxide, hydrate	·		REACH(SVH
	83					1
		С	All applications	-	—	DEACHYON
	83 84	C Cobalt(II) sulphate	e			REACH(SVH
		Cobalt(II) sulphate Cobalt(II) dinitrate	e All applications e			
	84	Cobalt(II) sulphate Cobalt(II) dinitrate Cobalt(II) dinitrate Cobalt(II) carbon	e All applications e All applications ate		-	REACH(SVH0
	84 85 86	Cobalt(I) sulphate C Cobalt(I) dinitrate Cobalt(I) carbon Cobalt(I) carbon C	e All applications e All applications ate All applications			REACH(SVHC
	84 85	Cobatt(II) sulphate C Cobatt(II) dinitrate Cobatt(II) carbone Cobatt(II) carbone Cobatt(II) diaceta	e All applications e All applications ate All applications		-	REACH(SVHO REACH(SVHO REACH(SVHO
	84 85 86 87 88	Cobalt(II) sulphate Cobalt(II) dinitrate Cobalt(II) carbona C Cobalt(II) carbona C Cobalt(II) diaceta C 2-Methoxyethanol C	e All applications e All applications ate All applications ate the All applications te	- -		REACH(SVHC REACH(SVHC REACH(SVHC
	84 85 86 87 88 89	Cobalt(I) sulphate C Cobalt(I) dinitrate C Cobalt(I) carbona C Cobalt(I) diaceta C Cobalt(I) diaceta C 2-Methoxyethanol C 2-Ethoxyethanol C	e All applications e All applications ate All applications te All applications All applications All applications All applications All applications			REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	84 85 86 87 88	Cobalt(II) sulphat Cobalt(II) dinitrate Cobalt(II) dinitrate C Cobalt(II) carbon C Cobalt(II) diaceta C Cobalt(II) diaceta C 2-Methoxyethanol C 2-Ethoxyethanol C 2-ethoxyethyl acet	e All applications e All applications ate All applications te All applications All applications All applications All applications All applications			REACH(SVHC REACH(SVHC REACH(SVHC

assification	No.	Substance group	Rank	Applications	Threshold value *1	Date of restriction	Remarks
Others	92	Hydrazine	С	All applications	_	_	REACH(SVHC)
	93	1-methyl-2-	pyrroli	done	ļ	[REACH(SVHC)
	94	1,2,3-trichlo		All applications	—	—	REACH(SVHC)
	95	1.0 honzon		All applications boxylic acid, di-C6-8-branched alkyl esters, C7-rich [DIHP]	-	—	IEC62474 *12
	95	1,2-Denzen	C	All applications	_	_	REACH
	96	Formaldeby		gomeric reaction products with aniline	_	_	(Restriction) IEC62474 *12
		,	C	All applications	—	_	REACH(SVHC)
	97	Bis(2-metho		/l) phthalate All applications	_	_	IEC62474 *12 REACH(SVHC)
	98	2-Methoxya	niline;	o-Anisidine	·		
	99	4-(1,1,3,3-t		All applications thylbutyl) phenol、4-tert-Octylphenol	_	_	REACH(SVHC) IEC62474 *12
	100	1,2-Dichlor		All applications	_	_	REACH(SVHC)
			С	All applications	—	-	REACH(SVHC)
	101	Bis(2-metho		/l) ether All applications	_	_	IEC62474 *12 REACH(SVHC)
	102	Arsenic aci	d				
	103	Calcium ars		All applications	—	-	REACH(SVHC)
	104	NINI dimenthe	C	All applications amide [DMAC]	—	—	REACH(SVHC)
	104	IN, IN-CITTIEUT		All applications	—	_	REACH(SVHC)
	105	2,2'-dichlor		methylenedianiline [MOCA] All applications	_	_	REACH(SVHC)
	106	Phenolphtha	alein		I		
	107	Other chlori		All applications npounds *13	-	-	REACH(SVHC)
			С	All applications	-	_	
	108	1,2-bis(2-m		ethoxy)ethane [TEGDME, triglyme] All applications	_	_	IEC62474 *12 REACH(SVHC)
	109	1,2-dimetho		ane; ethylene glycol dimethyl ether [EGDME] All applications	_	_	IEC62474 *12 REACH(SVHC)
	110	Diboron tric	xide				IEC62474 *12
	111	Formamide	С	All applications	-	_	REACH(SVHC)
				All applications	-	-	REACH(SVHC)
	112	TGIC (1,3,5		xiranyImethyI)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) All applications	_	_	REACH(SVHC)
	113	β-TGIC (1,3		[(2S and 2R)-2,3-epoxypropy]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) All applications	_	_	
	114	4,4'-bis(dim	ethyla	mino)benzophenone (Michler's ketone)			REACH(SVHC)
	115	N N N' N'-te		All applications hyl-4,4'-methylenedianiline (Michler's base)	-	—	REACH(SVHC)
			С	All applications	-	_	REACH(SVHC)
	116	[4-[[4-anilin chloride (C		phthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] ic Blue 26)	dimethylam	monium	
	117		С	All applications ylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammoniu	— m chloride	– (C.I. Basic	REACH(SVHC) IEC62474 *12
		,		All applications	—	—	REACH(SVHC)
	118	4,4'-bis(dim		mino)-4"-(methylamino)trityl alcohol All applications	_	_	REACH(SVHC)
	119	α,α-Bis[4-(α	dimeth	ylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blu	e 4)		REACH(SVHC)
	120	Bis(nentabr	C Omopł	All applications nenyl) ether (decabromodiphenyl ether; DecaBDE)	—	_	*9 US-TSCA
	.20	Bio(pointabi		All applications	—	_	REACH(SVHC)
	121	Pentacosaf		idecanoic acid All applications	_	_	REACH(SVHC)
	122	Tricosafluor	odode	canoic acid			REACH(SVHC)
	123	Henicosaflu	C	All applications decanoic acid	-	_	REACH(SVHC)
			С	All applications	-	—	· · · ·
	124	Heptacosaf	í	tradecanoic acid All applications	_	_	REACH(SVHC)
	125	4-(1,1,3,3-t and homolo	etrame gues	thylbutyl)phenol, ethoxylated - covering well-defined substances and UVC	B substance	es, polymers	REACH(SVHC)
	126	covalently b	nol, br ound i omers	All applications anched and linear [substances with a linear and/or branched alkyl chain w n position 4 to phenol, covering also UVCB- and well-defined substances v or a combination thereof]			REACH(SVHC)
	127	Diazeno 1 (All applications boxamide (C,C'-azodi(formamide))	_	-	
			С	All applications	—	_	REACH(SVHC)
	128	Cyclohexan	<u> </u>	dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) All applications		_	REACH(SVHC)
	129	Hexahydror		ran applications bhathalic anhydride,Hexahydro-4-methylphathalic anhydride,Hexahydro-1- dro-3-methylphathalic anhydride	methylphath		REACH(SVHC)

Classification	No.	Substance group	Rank	Applications	Threshold value *1	Date of restriction	Remarks
Others	130	Methoxy ac			1		REACH(SVHC)
	131	1,2-Benzen		All applications boxylic acid, dipentylester, branched and linear	_	_	IEC62474 *12
				All applications	-	_	REACH(SVHC)
	132	Diisopentylp		All applications	- 1	_	IEC62474 *12 REACH(SVHC)
	133	N-pentyl-isc	penty	phtalate	r T		IEC62474 *12
	134	1,2-Diethox		All applications	-	_	REACH(SVHC) IEC62474 *12
	134	T,Z-Dictriox		All applications	-	_	REACH(SVHC)
	135	N,N-dimethy		amide; dimethyl formamide	-	_	IEC62474 *12
	136	Pvrochlore.		All applications ony lead yellow			REACH(SVHC) REACH(SVHC)
			С	All applications	-	—	. ,
	137	Silicic acid,		m salt, lead-doped All applications		_	IEC62474 *12 REACH(SVHC)
	138	Furan	•	Air applications	ł		REACH(SVHC
	120	Drenulene	С	All applications	-	_	
-	139	Propylene c	C	1,2-epoxypropane; methyloxirane All applications	-	-	REACH(SVHC
	140	Diethyl sulp	1			•	REACH(SVHC)
	141	Dimethyl su	C	All applications	-	—	REACH(SVHC)
	141	Difficultyr 3u		All applications	-	_	REACH(OVIIO)
	142	3-ethyl-2-m		2-(3-methylbutyl)-1,3-oxazolidine	1		REACH(SVHC)
	143	Dinoseb	С	All applications	-	-	REACH(SVHC
			С	All applications	—	—	
	144	4,4'-methyle	·	p-toluidine All applications	_	_	REACH(SVHC)
	145	4,4'-oxydiar					REACH(SVHC)
			С	All applications	-	—	. ,
	146	4-Aminoazo		ne; 4-Phenylazoaniline All applications		_	IEC62474 *12 REACH(SVHC)
	147	4-methyl-m-		/lenediamine (2,4-toluene-diamine)	1		REACH(GVIIC)
	1.40	0		All applications	-	_	REACH(SVHC)
	148	6-metnoxy-r		dine (p-cresidine) All applications	-	-	REACH(SVHC
	149	Biphenyl-4-	ylamir	e			REACH(SVHC
	150	o-aminoazo		All applications	-	—	REACH(SVHC
	150	0-aminoazo		All applications	-	_	REACH(OVIIO)
	151	o-Toluidine;			T		REACH(SVHC)
	152	N-methylace	C etamid	All applications e		_	REACH(SVHC
			С	All applications	-	—	, ,
	153	1-bromopro		n-propyl bromide All applications	_	_	REACH(SVHC)
	154	Dipentyl ph			1		REACH(SVHC)
		4 New Jobs		All applications anched and linear, ethoxylated [substances with a linear and/or branched	-	—	REACH(SVHC)
	155			lently bound in position 4 to phenol, ethoxylated covering UVCB- and well-			REACH(SVHC
		polymers ar		nologues, which include any of the individual isomers and/or combinations	thereof]	_	
	156	APFO(Amm		All applications pentadecafluorooctanoate)	_	—	REACH(SVHC
			С	All applications	-	_	
	157	PFOA(Pent	adeca B	fluorooctanoic acid) Intentional use		_	REACH (Restriction)
				PFOA and its salts	25ppb	_	*9
				Total concentration of PFOA related substances	(0,025ppm) 1000ppb	_	
					(1ppm)		
	158	Disodium 3		1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. All applications	Direct Red 2	28) I —	REACH(SVHC
	450	Disodium 4		און applications 3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(ph	enylazo)na	hthalene-2,7-	REACH(SVHC
	159	disulphonate	<u>`</u>	Direct Black 38)	1	1	
	160	Dihexyl phth		All applications	ı –	ı –	REACH(SVHC
		Dinoxyrpina		All applications	-	—	(Authorization)
	161	Imidazolidin		ione; (2-imidazoline-2-thiol)			REACH(SVHC
	162	Trixylyl phos		All applications		-	REACH(SVHC
			С	All applications	—	_	(Authorization)
				boxylic acid, dihexyl ester, branched and linear		1	REACH(SVHC (Authorization)
		1,2-Benzen			-	-	
			C borate	All applications ; perboric acid, sodium salt	1 1		REACH(SVHC
	163 164	Sodium per	C borate C	All applications ; perboric acid, sodium salt All applications	-		REACH(SVHC (Authorization)
	163 164		C borate C oxome	All applications ; perboric acid, sodium salt All applications	1 1		REACH(SVHC (Authorization) REACH(SVHC
	163 164	Sodium per Sodium per	C borate C oxome C zol-2-y	All applications ; perboric acid, sodium salt [All applications taborate All applications (I-4,6-di-tert-butylphenol (UV-320)	_ _	_	REACH(SVHC (Authorization) REACH(SVHC (Authorization) REACH(SVHC
	163 164 165	Sodium per Sodium per 2-benzotria:	C borate C oxome C zol-2-y C	All applications ; perboric acid, sodium salt All applications taborate All applications -4,6-di-tert-butylphenol (UV-320) All applications	1 1	_	REACH(SVHC (Authorization) REACH(SVHC (Authorization) REACH(SVHC (Authorization)
	163 164 165 166 167	Sodium per Sodium per 2-benzotriaz 2-(2H-benzo	C borate C oxome C zol-2-y C otriazo	All applications ; perboric acid, sodium salt All applications taborate All applications I-4,6-di-tert-butylphenol (UV-320) All applications I-2-y))-4,6-ditertpentylphenol (UV-328) All applications	_ _	_	REACH(SVHC) (Authorization) REACH(SVHC) (Authorization) REACH(SVHC) (Authorization) REACH(SVHC) (Authorization)
	163 164 165 166 167	Sodium per Sodium per 2-benzotriaz 2-(2H-benzo	C borate C oxome zol-2-y C otriazc C l 10-et	All applications ; perboric acid, sodium salt All applications taborate All applications 1-4,6-di-tert-buty/phenol (UV-320) All applications 1-2-yl)-4,6-ditertpenty/phenol (UV-328) All applications hyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	– – –	_ _ _	REACH(SVHC (Authorization) REACH(SVHC) (Authorization) REACH(SVHC) (Authorization) REACH(SVHC) (Authorization)
	163 164 165 166 167	Sodium per Sodium per 2-benzotriaz 2-(2H-benzo 2-ethylhexy	C borate C oxome C zol-2-y C otriazo I 10-et C	All applications ; perboric acid, sodium salt All applications taborate All applications I-4,6-di-tert-butylphenol (UV-320) All applications I-2-y))-4,6-ditertpentylphenol (UV-328) All applications			(Authorization) REACH(SVHC) (Authorization) REACH(SVHC) (Authorization) REACH(SVHC) (Authorization) REACH(SVHC REACH(SVHC
	163 164 165 166 167	Sodium per Sodium per 2-benzotriaz 2-(2H-benzo 2-ethylhexyl reaction ma	C borate C cxome zol-2-y c triazc c l 10-et C ass of 2 (2-eth	All applications ; perboric acid, sodium salt All applications taborate All applications I-4,6-di-tert-butylphenol (UV-320) All applications I-2-y)-4,6-ditertpentylphenol (UV-328) All applications hyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) All applications 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecan ylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecan			REACH(SVHC (Authorization) REACH(SVHC (Authorization) REACH(SVHC (Authorization) REACH(SVHC (Authorization) REACH(SVHC

Classification	No.	Substance group	Rank		Threshold value *1	Date of restriction	Remarks
thers	170	1,2-benzen		boxylic acid, di-C6-10-alkyl esters with>0.3% of dihexyl phthalate (EC No. All applications	201-559-5) —	_	REACH (Authorization)
	171		·l-1,3-c	4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6 dioxane [2] [covering any of the individual isomers of [1] and [2] or any cor		ereof]	REACH (Authorization)
	172	1,3-propan	esultor		_		REACH(SVHC)
	173	2,4-di-tert-t		All applications -(5-chlorobenzotriazol-2-yl)phenol(UV-327)		_	REACH
			С	All applications pl-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	_	—	(Authorization) REACH
			С	All applications	-	_	(Authorization)
		Nitrobenzer	С	All applications	_	_	REACH(SVHC)
	176	Perfluorono		-oicacid and its sodium and ammonium salts All applications	_	_	REACH(SVHC)
	177	Benzo[def]		ene (Benzo[a]pyrene) All applications		_	REACH(SVHC)
	178	4,4'-isoprop	pylider	All applications	·	_	REACH(SVHC)
	179	Nonadecafl	luorod	ecanoic acid (PFDA) and its sodium and ammonium salts		,	REACH(SVHC)
	180	p-(1,1-dime		All applications opyl)phenol	_	—	REACH(SVHC)
		4-heptylphe		All applications ranched and linear [substances with a linear and/or branched alkyl chain v	with a carbo	– n number of 7	REACH(SVHC)
	181		bound	predominantly in position 4 to phenol, covering also UVCB- and well-define		es which	
	182	4,4'-isoprop		All applications ediphenol (bisphenol A; BPA)		_	REACH(SVHC
	183	Perfluorohe		All applications 1-sulphonic acid and its salts	_	-	REACH(SVHC
				All applications	-	-	<u> </u>
		Chrysene		All applications	-	_	REACH(SVHC
	185	Benz[a]ant		All applications	-	_	REACH(SVHC
	186	Cadmium n		All applications	_	_	REACH(SVHC
	187	Cadmium h	ydroxi	de	- -		REACH(SVHC
	188	Cadmium c	arbon			_	REACH(SVHC
		167901		All applications	-	-	+44
			4 15 1	6 17 17 18 18- Dodecachloropentacyclo [12 2 1 16 9 02 13 05 10] octade	ca-7 15-dier	ne ("Dechlorane	*14
	189		overin	6,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octade g any of its individual anti- and syn-isomers or any combination thereof]	ca-7,15-diei	ne ("Dechlorane	CEPA
		Plus"TM) [c	coverin	g any of its individual anti- and syn-isomers or any combination thereof] All applications	_		CEPA REACH(SVHC)
	189 190	Plus"TM) [c	coverin C roduct	g any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b	_		CEPA
	190	Plus"TM) [c Reaction pr HP)	coverin	ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4)	 pranched an	d linear (RP-	CEPA REACH(SVHC)
	190 191	Plus"TM) [c Reaction pr HP) Octamethyl	coverin	g any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5)	_		CEPA REACH(SVHC REACH(SVHC
	190 191 192	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy	coverin	ag any of its individual anti- and syn-isomers or any combination thereof] [All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b [All applications etrasiloxane (D4) [All applications pentasiloxane (D5) [All applications	 pranched an	d linear (RP-	CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy Dodecamet	coverin C roduct cyclot cy	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications	 pranched an	d linear (RP-	CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy Dodecamethy Disodium o	coverin roduct cyclot c	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications ate			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy Dodecamet Disodium o Benzo[ghi];	coverin C coduct C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C C cyclot C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications ate All applications ate All applications			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy Dodecamethy Disodium o	coverin C coduct C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C C cyclot C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications ate All applications ate All applications			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy Dodecamet Disodium o Benzo[ghi];	coverin C coduct: C cyclote C cyclot	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications ate All applications ne All applications ne All applications I A I Applications			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197	Plus"TM) [c Reaction pr HP) Octamethy] Decamethy Dodecamet Disodium o Benzo[ghi] Terphenyl h Ethylenedia	coverin C roduct cyclot cyclot C C cyclot C C cyclot C cyclot C cyclot C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications re [All applications re] [All applicatio			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197 198	Plus"TM) [c Reaction pr HP) Octamethy] Decamethy Dodecamet Disodium o Benzo[ghi] Terphenyl h Ethylenedia	coverin C roduct C cyclot C C cyclot C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications ate All applications re All applications enated All applications All applications All applications enated ene			CEPA REACH(SVHC) REACH(SVHC
	190 191 192 193 194 195 196 197 198 199	Plus"TM) [c Reaction pr HP) Octamethyl Decamethyl Dodecamet Disodium o Benzo[ghi]j Terphenyl I Ethylenedia 2,2-bis(4'-h Benzo[k]flu	coverin C roduct C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications rete All applications re IAll applications re IAll applications IAll applications Pentasiloxane (D5) IAll applications Pentasiloxane (D6) IAll All applications Pentasiloxane (D6) IAll Applications P			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
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	190 191 192 193 194 195 196 197 198 199 200 201	Plus"TM) [c Reaction pr HP) Octamethyl Decamethyl Dodecamet Disodium o Benzo[ghi]f Terphenyl f Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther	coverin roduct ccyclot	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications ate All applications re [All applications enated [All applications phenyl)-4-methylpentane [All applications ene [All			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197 198 199 200 201 202	Plus"TM) [c Reaction pr HP) Octamethyl Decamethyl Dodecamethy Disodium o Benzo[ghi]; Terphenyl H Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther Phenanthre	coverin C coduct C cyclot C C cyclot C C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications context pentasiloxane (D5) All applications context context All applications context context All applications context context All applications ate All applications ate All applications reated All applications enated All applications anator All applications enated All applications anator All applications anator All applications anator All applications anator All applications All applications All a			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197 198 199 200 201 202	Plus"TM) [c Reaction pr HP) Octamethyl Decamethyl Dodecamet Disodium o Benzo[ghi]f Terphenyl f Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther	coverin C croduct C cyclot C c cyclot C c c c c c c c c c c c c c	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications context pentasiloxane (D5) All applications context context All applications context context All applications context context All applications ate All applications ate All applications reated All applications enated All applications anator All applications enated All applications anator All applications anator All applications anator All applications anator All applications All applications All a			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197 198 199 200 201 202	Plus"TM) [c Reaction pr HP) Octamethyl Decamethyl Dodecamet Disodium o Benzo[ghi]j Terphenyl h Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther Phenanthre Pyrene 2-methoxye	coverin C coduct C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C C C cyclot C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications clohexasiloxane (D6) All applications rete All applications enated All applications ene All a		—	CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197 198 199 200 201 202 202	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy Dodecamethy Dodecamethy Disodium o Benzo[ghi]] Terphenyl I Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther Phenanthre Pyrene 2-methoxye Tris(4-nony NP) 2,3,3,3-tetr	coverin C coduct C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C cyclot C C cyclot C cyclo	g any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) [All applications pentasiloxane (D5) [All applications clohexasiloxane (D6) [All applications [All applications clohexasiloxane (D6) [All applications [All appli			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205	Plus"TM) [c Reaction pr HP) Octamethyl Decamethy Dodecamethy Dodecamethy Disodium o Benzo[ghi]] Terphenyl I Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther Phenanthre Pyrene 2-methoxye Tris(4-nony NP) 2,3,3,3-tetr	coverin C coduct C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C cyclot C C C cyclot C C C C C C C C C C C C C	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications clohexasiloxane (D6) All applications clohexasiloxane (D6) All applications clate All applications Pentasiloxane (D6) All applicatio			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
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	190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207	Plus"TM) [c Reaction pr HP) Octamethyl Decamethyl Dodecamethyl Dodecamethyl Dodecamethyl Dodecamethyl Benzo[ghi]; Terphenyl H Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther Phenanthre Phenanthre Pyrene 2-methoxye Tris(4-nony NP) 2,3,3,3-tetr isomers an 4-tert-butyl; 2-benzyl-2-	coverinine C coverine C co	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) All applications pentasiloxane (D5) All applications clohexasiloxane (D6) All applications clohexasiloxane (D6) All applications All applications			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 203 204 205 206 207 208	Plus"TM) [c Reaction pr HP) Octamethyl Decamethyl Dodecamethyl Dodecamethyl Dodecamethyl Dodecamethyl Benzo[ghi]] Terphenyl H Ethylenedia 2,2-bis(4'-h Benzo[k]flu Fluoranther Phenanthre Phenanthre Pyrene 2-methoxye Tris(4-nony NP) 2,3,3,3-tetri isomers an 4-tert-butyl 2-benzyl-2- 2-methyl-1-	coverin' C roduct C cyclot C c c c c c c c c c c c c c	Ig any of its individual anti- and syn-isomers or any combination thereof] All applications s of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, b All applications etrasiloxane (D4) [All applications pentasiloxane (D5) [All applications clohexasiloxane (D6) [All applications			CEPA REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
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ification	No.	Substance group	Rank	Applications	Threshold value *1	Date of restriction	Remarks
Others	211			achloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepine 3			*9
	212	Sodium Per		All applications	_	_	*9
			В	All applications	-	-	* 1 =
	213	Phenol, Iso		ated Phosphate (3:1) (PIP 3:1) All applications	_	_	*15 US-TSCA
	214	2,4,6-tris(te	rt-buty	(l)phenol (2,4,6-TTBP)			US-TSCA
	215	Pentachloro		All applications nenol (PCTP)	-	_	US-TSCA
			В	All applications	_	_	
	216	per-and pol		palkyl substances(PFAS) All applications	_	_	US-TSCA
	217	1-vinylimida	zole				REACH(SVHC
	218	2-methylimi	C	All applications	-	_	REACH(SVH0
			С	All applications	_	_	
	219	Butyl 4-hyd		enzoate All applications		_	REACH(SVH0
	220	Dibutylbis(p		e-2,4-dionato-0,0')tin	_	_	REACH(SVH0
				All applications	—	—	
	221	bis(2-(2-me		ethoxy)ethyl) ether All applications	_	_	REACH(SVH0
	222		laurate	e, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, d	ioctyl-, bis(1	fatty	REACH(SVH0
		acyloxy)der	ivs. w C	nerein C12 is the predominant carbon number of the fatty acyloxy moiety All applications	_	_	
	223	1,4-dioxane	-				REACH(SVH0
		2.2 bis/br		All applications hyl)propane1,3-diol(BMP);2,2dimethylpropan 1-ol, tribromo derivative/3-br		-	DEACHIONING
	224			nyi)propane 1,3-otol(BiviP);2,20imetryipropan 1-oi, tribromo derivative/3-bro ?A);2,3-dibromo-1-propanol (2,3-DBPA)	omo-2,2-dis	s(bromometnyi)-	REACH(SVH0
				All applications	-	_	
	225	2-(4-tert-bu	<u> </u>	zyl)propionaldehyde and its individual stereoisomers All applications	_	_	REACH(SVH0
	226	4,4'-(1-meth	ylprop	ylidene)bisphenol; (bisphenol B)			REACH(SVH0
	227	Glutaral	С	All applications	-	-	REACH(SVH
	221	Giulai ai	С	All applications	—	_	
	228			orinated paraffins (MCCP) [UVCB substances consisting of more than or e	equal to 80%	% line	REACH(SVHC
		archioroalka	anes w C	ith carbon chain lengths within the range from C14 to C17] All applications	_	_	
	229	Orthoboric a	acid, s	oodium salt			REACH(SVHC
		Phenol alky		All applications products (mainly in para position) with C12-rich branched or linear alkyl c			REACH(SVH
	230			vidual isomers and/ or combinations thereof (PDDP)		engerneneazen,	
	221	Dooobromo		All applications envl-ethane(DBDPE)	—	_	*14
	231	Decabiolitio		All applications	_	_	CEPA
	232	6,6'-di-tert-b		,2'-methylenedi-p-cresol (DBMC)			REACH(SVH
	233	tris(2-metho		All applications xy)vinylsilane	_	-	REACH(SVH
			C	All applications	_	_	
	234			I-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any o ons thereof (4-MBC)	of the individ	ual isomers	REACH(SVH0
			С	All applications	_	_	
	235)'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isop horodithioate	propyl or iso	butyl or 2-	REACH(SVH0
		eurymexyr)	_	All applications	_	_	
		N (bydrow)	mothyl)acrylamide			REACH(SVH
	236	IN-(HYUIOXYI				-	
			С	All applications iv/bisoxv1bis[2.4.6-tribromobenzene]	_		REACH(SVH
	237	1,1'-[ethane	C -1,2-d C	iylbisoxy]bis[2,4,6-tribromobenzene] All applications		_	
	237	1,1'-[ethane	C -1,2-d C abron	iylbisoxy]bis[2,4,6-tribromobenzene] All applications no-4,4'-isopropylidenediphenol			REACH(SVHO
	237 238	1,1'-[ethane	C -1,2-d C abron C nyldiph	iylbisoxy]bis[2,4,6-tribromobenzene] All applications no-4,4'-isopropylidenediphenol All applications nenol		_	REACH(SVH0
	237 238 239	1,1'-[ethane 2,2',6,6'-tetr 4,4'-sulphor	C -1,2-d abron C nyldiph C	iylbisoxy]bis[2,4,6-tribromobenzene] All applications 10-4,4'-isopropylidenediphenol All applications 10-10 All applications			REACH(SVHC
	237 238 239	1,1'-[ethane 2,2',6,6'-tetr	C -1,2-d abron C nyldiph C oron te	iylbisoxy]bis[2,4,6-tribromobenzene] All applications 10-4,4'-isopropylidenediphenol All applications 10-10 All applications		_	
	237 238 239 240	1,1'-[ethane 2,2',6,6'-tetr 4,4'-sulphor Barium dibo	C -1,2-d C abron C nyldiph C oron te C exyl) f	iylbisoxy]bis[2,4,6-tribromobenzene] All applications o-4,4'-isopropylidenediphenol All applications nenol All applications traoxide All applications tetrabromophthalate covering any of the individual isomers and/or combina			REACH(SVHC REACH(SVHC REACH(SVHC
	237 238 239 240 241	1,1'-[ethane 2,2',6,6'-tetr 4,4'-sulphor Barium dibo Bis(2-ethyll	C -1,2-d C abron C nyldiph C oron te C exyl) 1	iylbisoxy]bis[2,4,6-tribromobenzene] All applications o-4,4'-isopropylidenediphenol All applications enol All applications traoxide All applications tetrabromophthalate covering any of the individual isomers and/or combina All applications		-	REACH(SVHC REACH(SVHC REACH(SVHC
	237 238 239 240 241 242	1,1'-[ethane 2,2',6,6'-tetr 4,4'-sulphor Barium dibo Bis(2-ethyll Isobutyl 4-h	C -1,2-d C abron C nyldiph C oron te C exyl) 1	iylbisoxy]bis[2,4,6-tribromobenzene] All applications o-4,4'-isopropylidenediphenol All applications enol All applications traoxide All applications tetrabromophthalate covering any of the individual isomers and/or combina All applications			REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	237 238 239 240 241 242	1,1'-[ethane 2,2',6,6'-tetr 4,4'-sulphor Barium dibo Bis(2-ethyll	C -1,2-c abron C nyldiph C oron te C exyl) f C ydrox	iylbisoxy]bis[2,4,6-tribromobenzene] All applications no-4,4'-isopropylidenediphenol All applications enol All applications etraoxide All applications tetrabromophthalate covering any of the individual isomers and/or combina All applications benzoate All applications			REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC
	237 238 239 240 241 242 243	1,1'-[ethane 2,2',6,6'-tetr 4,4'-sulphor Barium dibc Bis(2-ethylh Isobutyl 4-h Melamine	C -1,2-c abron C nyldiph C oron te C vdrox C ydrox C c ptanoi	iylbisoxy]bis[2,4,6-tribromobenzene] All applications no-4,4'-isopropylidenediphenol All applications renol All applications straoxide All applications tetrabromophthalate covering any of the individual isomers and/or combina All applications ybenzoate All applications c acid and its salts			REACH(SVHC
	237 238 239 240 241 242 243	1,1'-[ethane 2,2',6,6'-tetr 4,4'-sulphor Barium dibc Bis(2-ethyll' Isobutyl 4-h Melamine Perfluorohe	C -1,2-c C abron C yldiph C oron te C exyl) t C ydrox C C ptanoi C	iylbisoxy]bis[2,4,6-tribromobenzene] All applications no-4,4'-isopropylidenediphenol All applications enol All applications etraoxide All applications tetrabromophthalate covering any of the individual isomers and/or combina All applications benzoate All applications All applications			REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC REACH(SVHC

- *1: Intentional use of prohibited materials (rank B) is not acceptable.
- However, lead intentionally used for electroless plating is acceptable if it is controlled to the threshold value of 1000 ppm. Impurities more than the threshold value is prohibited per each part of components. (Please refer the chart on page 5.)
- *2: For packaging and packing material subject to Note 2, the total content of four heavy metals (cadmium, lead, mercury, and hexavalent chromium compounds) shall not exceed 100 ppm.
- *3: Threshold of heavy metals in battery are listed the below; Cadmium: 0.0005wt% (per total weight of battery) Lead: 0.002wt% (per total weight of battery)
 - Mercury: 0.004wt% (per total weight of battery)
- *4: Nickel compounds except for metal alloys (for example: stainless steel).
- *5: Prohibition applies to short chain chlorinated paraffins with carbon numbers from 10 to 13.
- *6: Brominated flame retardant except for PBBs and PBDEs. Indicate with ISO code 1043-4 or CAS No.
- *7: Specific amines are listed in Table 3.
- *8: "Toxic substances, production of which is prohibited "under Article 16 of the Industrial Safety and Health Law.
- *9: "Class I specified chemical substance" prescribed in Article 1, Enforcement Ordinance of Law Concerning Examination and Regulation of
- Manufacture and Handling of Chemical Substances
- *10: Each substance is regulated by the European Union REACH Regulation described in table 2 "remarks" as below. Authorized substances or candidates for authorization are described as "REACH (Authorized)", restricted substances are described as
- *11: "Other chlorine compounds" indicate chlorine compounds except "No.1-6,8,9 listed in Table 1" and "No.9,19-21,23,29, 35-38, 41-46,49-52,54-
- *12: Material that has been described as "IEC62474" in the chemical group remarks column of Table 2 is a substance that is specified in the IEC62474 (International Electrotechnical Commission).
- *13: Specified eight substances to B rank in Polycyclic aromatic hydrocarbons may be contained carbon black using as coloring agent for resin product.
- *14: CEPA:Canadian Environmental Protection Act
- *15: Substance No. 213(Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)) may be prohibited by U.S. TSCA PBT regulations after March 8, 2022. In this case, the substance is ranked B in this guideline.

[Table 3] List of Specific Amines

The term "specific amines" refers to amine compounds to which the Council Directive amending
76/769/EEC for the 19th time applies.

Substance	Chemical formula	CAS No
4-aminoazobenzene	C12H11N3	60-09-3
0-anisidine	C7H9NO	90-04-0
2-naphtylamine	C10H9N	91-59-8
3,3'-dichlorobenzidine	C12H10C12N2	91-94-1
4-aminobiphenyl	C12H11N	92-67-1
Benzidine	C12H12N2	92-87-5
o-toluidine	C7H9N	95-53-4
4-chloro-2-metyl aniline	C7H8CIN	95-69-2
2,4-toluendiamine	C7H10N2	95-80-7
o-aminoazotoluene	C14H15N3	97-56-3
5-nitro-o-toluidine	C7H8N2O2	99-55-8
3,3'-dichloro-4,4'-diamino diphenylmethane	C13H12Cl2N2	101-14-4
4,4'-methylenedianiline	C13H14N2	101-77-9
4,4'-diaminodiphenylether	C12H12N2O	101-80-4
p-chloroaniline	C6H6CIN	106-47-8
3,3'-dimethoxybenzidine	C14H16N2O2	119-90-4
3,3'-dimethylbenzidine	C14H16N2	119-93-7
2-methoxy-5-methyl aniline	C8H11NO	120-71-8
2,4,5-trimethylaniline	C9H13N	137-17-7
4,4'-thiodianiline	C12H12N2S	139-65-1
2,4-diaminoanisole	C7H10N2O	615-05-4
4,4'-diamino-3,3'-dimethyl-diphenylmethane	C15H18N2	838-88-0

Substance Chemical Classification Breakdown Class Substance Formula No. Class I C04097 CFCs (Annex A Group I substances in the Montreal Protocol) CFC-11 CFCI3 CFC-12 CF2Cl2 CFC-113 C2F3Cl3 CFC-114 C2F4Cl2 CFC-115 C2F5CI C04098 Halons (Annex A Group II substances in the Montreal Protocol) Halon 1211 CF2BrCl Halon 1301 CF3Br Halon 2402 C2F4Br2 C04099 CFC-13 CF3CI Other CFCs (Annex B Group I substances in the Montreal Protocol) CFC-111 C2FCI5 C2F2Cl4 CFC-112 CFC-211 C3FCI7 CFC-212 C3F2Cl6 CFC-213 C3F3Cl5 CFC-214 C3F4Cl4 CFC-215 C3F5Cl3 CFC-216 C3F6Cl2 CFC-217 C3F7CI C04100 Carbon tetrachloride (Annex B Group II substance in the Montreal Protocol) CCI4 Carbon tetrachloride C04101 1.1.1-trichloroethane (Annex B Group III substance in the Montreal Protocol) C2H3Cl3 1,1,1-trichloroethane CH2BrCl C04102 Bromochloromethane (Annex C Group III substance in the Montreal Protocol) Bromochloromethane C04103 Methyl bromide (Annex E substance in the Montreal Protocol) Methyl bromide CH3Br C04104 HBFCs (Annex C Group II substances in the Montreal Protocol) CHFBr2 Dibromofluoromethane Bromodifluoromethane CHF2Br CH2FBr Bromofluoromethane Tetrabromofluoroethane C2HFBr4 Tribromodifluoroethane C2HF2Br3 Dibromotrifluoroethane C2HF3Br2 Bromotetrafluoroethane C2HF4Br Tribromofluoroethane C2H2FBr3 Dibromodifluoroethane C2H2F2Br2 Bromotrifluoroethane C2H2F3Br Dibromofluoroethane C2H3FBr2 Bromodifluoroethane C2H3F2Br Bromofluoroethane C2H4FBr Hexabromofluoropropane C3HFBr6 C3HF2Br5 Pentabromodifluoropropane Tetrabromotrifluoropropane C3HF3Br4 Tribromotetrafluoropropane C3HF4Br3 Dibromopentafluoropropane C3HF5Br2 Bromohexafluoropropane C3HF6Br Pentabromofluoropropane C3H2FBr5 Tetrabromodifluoropropane C3H2F2Br4 Tribromotrifluoropropane C3H2F3Br3 Dibromotetrafluoropropane C3H2F4Br2 Bromopentafluoropropane C3H2F5Br Tetrabromofluoropropane C3H3FBr4 Tribromodifluoropropane C3H3F2Br3 Dibromotrifluoropropane C3H3F3Br2 Bromotetrafluoropropane C3H3F4Br Tribromofluoropropane C3H4FBr3 Dibromodifluoropropane C3H4F2Br2 Bromotrifluoropropane C3H4F3Br Dibromofluoropropane C3H5FBr2 Bromodifluoropropane C3H5F2Br Bromofluoropropane C3H6FBr Bromochloromethane CH2BrCl Class II C04105 HCFCs (Annex C Group I substances in the Montreal Protocol) HCFC-21 CHFCI2 HCFC-22 CHF2CI HCFC-31 CH2FCI HCFC-121 C2HFCI4 HCFC-122 C2HF2CI3 HCFC-123 C2HF3Cl2 HCFC-123*1 CHCI2CF3 HCFC-124 C2HF4CI HCFC-124*1 CHFCICF3 HCFC-131 C2H2FCI3 HCFC-132 C2H2F2Cl2

[Table 4] List of Ozone Depleting Substances

Class	Substance Classification No.	Substance	Breakdown	Chemical Formula
Class II	C04105	HCFCs (Annex C Group I substances in the Montreal Protocol)	HCFC-133	C2H2F3CI
			HCFC-141	C2H3FCl2
			HCFC-141b*1	CH3CFCI2
			HCFC-142	C2H3F2CI
			HCFC-142b*1	CH3CF2CI
			HCFC-151	C2H4FCI
			HCFC-221	C3HFCI6
			HCFC-222	C3HF2Cl5
			HCFC-223	C3HF3Cl4
			HCFC-224	C2HF4Cl3
			HCFC-225	C3HF5Cl2
			HCFC-225ca*1	CF3CF2CHCl2
			HCFC-225cb*1	CF2CICF2CHCIF
			HCFC-226	C3HF6CI
			HCFC-231	C3H2FCI5
			HCFC-232	C3H2F2Cl4
			HCFC-233	C3H2F3Cl3
			HCFC-234	C3H2F4Cl2
			HCFC-235	C3H2F5CI
			HCFC-241	C3H3FCI4
			HCFC-242	C3H3F2Cl3
			HCFC-243	C3H3F3Cl2
			HCFC-244	C3H3F4CI
			HCFC-251	C3H4FCl3
			HCFC-252	C3H4F2Cl2
			HCFC-253	C3H4F3CI
			HCFC-261	C3H5FCl2
			HCFC-262	C3H5F2CI
			HCFC-271	C3H6FCI

*1: Substances most likely to be used commercially.

Classification	Substance Group	Substance	Chemical Formula	CAS No.
/letal	Cadmium and cadmium	Cadmium	Cd	7440-43-9
ompounds	compounds	Cadmium oxide	CdO	1306-19-0
		Cadmium sulfide	CdS	1306-23-6
		Cadmium chloride	CdCl2	10108-64-
		Cadmium sulfate	CdSO4	10124-36-
		Other cadmium compounds	—	_
	Hexavalent chromium	Sodium dichromate	Na2Cr2O7	10588-01-
	compounds	Chromium (VI) oxide	CrO3	1333-82-0
		Calcium chromate	CaCrO4	13765-19-
		Lead (II) chromate	PbCrO4	7758-97-0
		Potassium dichromate	K2Cr2O7	7778-50-9
		Potassium chromate	K2CrO4	7789-00-0
		Barium chromate	BaCrO4	10294-40-
		Sodium chromate		
			Na2CrO4	7775-11-
		Strontium chromate	SrCrO4	7789-06-
		Other hexavalent chromium	_	
		compounds		
	Lead and lead compounds	Lead	Pb	7439-92-
		Lead (II) carbonate	PbCO3	598-63-0
		Lead (IV) oxide	PbO2	1309-60-
	1	Lead (II, IV) oxide	Pb3O4	1314-41-
		Lead (II) sulfide	PbS	1314-87-
	1	Lead (II) oxide	PbO	1317-36-
		Lead (II) carbonate basic	2PbCO3.Pb(OH)2	1319-46-0
	1	Lead hydroxycarbonate	2PbCO3Pb(OH)2	1344-36-
	1	Lead (II) sulfate	PbSO4	7446-14-
	1	Lead (II) suilate	Pb3(PO4)2	7446-14-
	1	Lead (II) phosphale Lead (II) chromate		
	1		PbCrO4	7758-97-
		Lead (II) titanate	PbTiO3	12060-00
		Lead sulfate, sulfuric acid, lead salt	PbXSO4	15739-80
		Lead sulfate, tribasic	PbSO4.H2O	12202-17
		Lead stearate	Pb(C17H35COO)2	1072-35-
		Lead stearate, dibasic	2PbO•	56189-09
		,,	Pb(C17H35COO)2	
		Lead acetate	C4H6O4Pb / (CH3COO)2Pb	301-04-2
		Lead (II) acetate, trihydrate	Pb(CH3COO)2 · 3H2O	6080-56-
		Lead selenide	PbSe	12069-00-
		Lead chromate molybdate	-	12656-85-
		sulphate red (C.I. Pigment Red 104)		12000 00
		Lead sulfochromate yellow (C.I. Pigment Yellow 34)	-	1344-37-:
		Lead arsenate Lead Hydrogen Arsenate	Pb3(AsO4)2 AsHO4Pb	3687-31- 7784-40-
	Moreumy and more	Other lead compounds	—	7400.07
	Mercury and mercury	Mercury	Hg	7439-97-
	compounds	Mercury (II) chloride	HgCl2	7487-94-
		Mercury (II) oxide	HgO	21908-53
		Mercric Chloride	—	33631-63
		Mercury sulphate	HgSO4	7783-35-
		Mercury (II) nitrate; Mercuric nitrate	HgN2O6 / Hg(NO3)2	10045-94
		Mercury(II) sulfide; Mercury sulfide (HgS)	HgS	1344-48-
		Other mercury compounds	—	
	Bis (tri-n-butyltin) oxide (TBTO)	Bis (tri-n-butyltin) oxide	O(Sn(C4H9)3)2	56-35-9
	Tributyltins (TBTs) and triphenyltins (TPTs)	Triphenyltin N,N''- Triphenyltin fluoride	(C6H5)3Sn(CH3)2NCS (C6H5)3SnF	1803-12- 379-52-2
	. , ,	Triphenyltin acetate	(C6H5)3SnOCOCH3	900-95-8
	1	Triphenyltin chloride	(C6H5)3SnCl	639-58-7
	1	Triphenyltin hydroxide	(C6H5)3SnOH	76-87-9
		Triphenyltin fatty acid salts (C = 9 to 11)	-	47672-31
	1	Triphenyltin chloroacetate	(C6H5)3SnOCOCH2C	7094-94-
		Tributyltin methacrylate	(C4H9)3SnC4H5O2	2155-70-
	1	Bis (tributyltin) fumarate	C2H2(COO)2((C4H9)3	6454-35-
		Tributyltin fluoride	(C4H9)3SnF	1983-10-
		Bis (tributyltin) 2,3- dibromosuccinate	((C4H9)3Sn)2C2H2(Br)	31732-71
	1			FO 00 -
	1	Tributyltin acetate	(C4H9)3SnOCOCH3	56-36-0
		Tributyltin laurate	(C4H9)3SnC12H23O2	3090-36-
	1	Bis (tributyltin) phthalate	(C6H4)(COO)2((C4H9)	4782-29-
		Copolymer of alkyl acrylate,	—	_
		methyl methacrylate and tributyltin		
		methyl methacrylate and tributyltin methacrylate (alkyl; C = 8)	(0440)2555025840	6647.05
		methyl methacrylate and tributyltin	(C4H9)3SnSO3NH2 C2H2(COO)2((C4H9)3	6517-25- 14275-57-

[Table 5-1] Breakdown List of Substances (Metal compounds)

Classification	Substance Group	Substance	Chemical Formula	CAS No.
vletal compounds	Tributyltins (TBTs) and triphenyltins (TPTs)	Mixture of tributyltin cyclopentane-carboxylate and its	(C4H9)3SnCO3C5H9	_
		Mixture of tributyltin 1, 2, 3, 4, 4a, 4b, 5, 6, 10, 10a-decahydro-7- isopropyl-1, 4a-dimethyl-1-	_	_
		phenanthlenecarboxylate and its analogs (Tributyltin rosin salt)		
		Other tributyltins and triphenyltins	—	_
	Organotin compounds	Dibutyltin oxide	C8H18OSn	818-08-6
	other than Bis (tri-n-	Dibutyltin dichloride	C8H18Cl2Sn	683-18-1
	butyltin) oxide (TBTO),	Dibutyltin dilaurate	C32H64O4Sn	77-58-7
	Tributyltins (TBTs) and	Dibutyltin bis(benzyl maleate)	C30H36O8Sn	7324-74-5
	triphenyltins (TPTs)	Dibutyltin maleate	C12H20O4Sn	1978-4-6
		Dibutuyltin di(acetate)	C12H24O4Sn	1067-33-0
		Dioctyltin oxide	C16H34OSn	870-08-6
		Dioctyltin dichloride	C16H34Cl2Sn C20H36O4Sn	3542-36-7 16091-18-
		Dioctyltin maleate Di(n-octyl)tin	C36H72O4S2Sn	26401-97-
		bis(isooctylthioglycolate)		
		Dioctyltin dilaurates (DOTL)	C40H80O4Sn	3648-18-8
	Antimony and antimony	Antimony	Sb	7440-36-0
	compounds	Antimony trichloride	SbCl3	10025-91-
		Antimony trioxide	Sb2O3	1309-64-4
		Antimony pentoxide	SB2O5 Na3O4Sb	1314-60-9
		Sodium antimonite	Na304Sb	15432-85-
	Arsenic and arsenic	Other antimony compounds Arsenic	As	7440-38-2
	compounds	Gallium arsenide	GaAs	1303-00-0
	compounds	Arsenic pentoxide	As205	1303-28-2
		Arsenic trioxide	As2O3	1327-53-3
		Calcium arsenate	Ca3(AsO4)2	7778-44-1
		Calcium arsenite	Ca3(AsO3)2	27152-57-
		Potassium arsenite	KAsO2.HAsO2	10124-50-
		Potassium arsenate	KH2AsO4	7784-41-0
		Lead arsenate	Pb3(AsO4)2	3687-31-8
		Lead Hydrogen Arsenate	AsHO4Pb	7784-40-9
		Other arsenic compounds	-	
	Beryllium and beryllium	Beryllium Beryllium oxide	Be BeO	7440-41-7
	compounds	Beryllium-aluminum alloy	Unspecified	12770-50-
		Beryllium chloride	BeCl2	7787-47-5
		Beryllium fluoride	BeF2	7787-49-7
		Beryllium hydroxide	Be(OH)2	13327-32-
		Beryllium phosphate	Be3(PO4)2	13598-15-
		Beryllium sulfate	BeSO4	13510-49-
		Beryllium sulfate tetrahydrate	BeSO4 · 4H2O	7787-56-0
		Beryl ore	Be3Al2Si6O18	1302-52-9
		Other beryllium compounds		
	Bismuth and bismuth	Bismuth	Bi	7440-69-9
	compounds	Bismuth trioxide Bismuth nitrate	Bi4O6 BiN3O9	1304-76-3 10361-44-
		Other bismuth compounds		
	Nickel and nickel	Nickel (II) oxide	NiO	1313-99-2
	compounds *2	Nickel (II) carbonate	NiCO3	3333-67-3
		Nickel (II) sulfate	NiSO4	7786-81-4
		Nickel	Ni	7440-02-0
		Other nickel compounds	—	—
	Selenium and selenium	Selenium	Se	7782-49-2
	compounds	Selenous acid	H2SeO3	7783-00-8
		Hydrogen selenide	H2Se	7783-7-5
		Sodium selenide Selenium oxide	Na2Se SeO	1313-85-5 12640-89-
		Sodium selenate	Na2SeO4	12640-89-
		Dimethyl selenide	(CH3)2Se	593-79-3
		Selenium dioxide	SeO2	7446-8-4
		Other selenium compounds	-	—
	Thallium and thallium	Thallium	П	7440-28-0
	compounds	Thallium nitrate	TINO3	10102-45-
		Thallium acetate	ПСНЗСОО	563-68-8
		Thallium carbonate	TI2CO3	6533-73-9
	1	Thallium sulfate	TI2SO4	7446-18-6

*1: Nickel compounds except for metal alloys (for example: stainless steel)

Substance Group	Substance	Chemical Formula	CAS No.
Polybrominated biphenyls	Polybrominated biphenyls	C12HXBr(10-X)	_
(PBBs)	2-Bromobiphenyl		2052-7-5
	· · · · · · · · · · · · · · · · · · ·		2113-57-7
			92-66-0
			92-86-4
			59080-34-1
			40088-45-7
			56307-79-0
			59080-40-9
			36355-01-8
			35194-78-6
			61288-13-9
			27753-52-2
		C12Br10	13654-09-6
			_
Polybrominated diphenyl			-
			1163-19-5
	· · · · · · · · · · · · · · · · · · ·		32536-52-0
			36483-60-0
			32534-81-9
			101-55-3
	· · · · · ·		2050-47-7
			49690-94-0
			40088-47-9
			68928-80-3
		C12HBr9O	63936-56-1
l		_	_
Polychlorinated binbenyls (PCBs)		Lippopolified	1006 06 0
			1336-36-3 61788-33-8
Polychlorinated		Unspecified	70776-03-3
Folychionnaled	Other polychlorinated naphthalenes		
Short chain chlorinated		Unspecified	85535-84-8
		onopooniou	
paranno	· · · · ·	_	_
Brominated flame		_	_
	_		
		_	
	Brominated flame retardant that	-	—
	falls under the notation of ISO		
	(excluding brominated diphenyl		
	ether and biphenyls)		
	Brominated flame retardant that		
	1043-4 code number FR (17)		
	[Aromatic brominated compounds		
	It's stricted biofilinated compounds	1	1
	(excluding brominated dippenvi		
	(excluding brominated diphenyl		
	(excluding brominated diphenyl ether and biphenyls) in combination with antimony		
	Polybrominated biphenyls	Polybrominated biphenyls Polybrominated biphenyls 2-Bromobiphenyl 3-Bromobiphenyl 3-Bromobiphenyl Titloromobiphenyl Titloromobiphenyl Titloromobiphenyl Pertabromobiphenyl Pertabromobiphenyl Hexabromobiphenyl Pertabromobiphenyl Heytabromobiphenyl Pertabromobiphenyl Heytabromobiphenyl Octabromobiphenyl Nonabromo-1, 1'-biphenyl Decabromobiphenyl Dotybrominated diphenyl Decabromodiphenyl ethers Decabromodiphenyl ether Polybrominated diphenyl ether Polybrominated diphenyl Polybrominated diphenyl ether Polybrominated diphenyl ether Titbromodiphenyl ether Hexabromodiphenyl ether Polybrominated diphenyl ether Tribromodiphenyl ether Titbromodiphenyl ether Polychlorinated biphenyls Polychlorinated diphenyl ether Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated biphenyls Polychlorinated flame Short chain chlorinated paraffins (C10 Other paraffins Chlorinated paraffins (C10 Other Short chain chlorinated Brominated flame retardant that reta	Polybrominated biphenyls Polybrominated biphenyls C12H/BFr(10-X) 2-Bromobiphenyl C12H/BFr 3-Bromobiphenyl C12H/BFr 4-Bromobiphenyl C12H/BFr Dibromobiphenyl C12H/BFr Pentabromobiphenyl C12H/BFr Hexabromobiphenyl C12H/BFr Pentabromobiphenyl C12H/BFr Hexabromobiphenyl C12H/BFr Pentabromobiphenyl Pentec C12H/BFr Pentabromobiphenyl Pentec C12H/BFr Pentabromodiphenyl Pentec C12H/BFr Pentabromodiphenyl Pentec C12H/BFr Pentabromodiphenyl Pentec Pentabromodiphenyl Pentec Pentabromodiphenyl Pentec C12H/BFr Pentec Pentabromodiphenyl Pentec C12H/BFr Pentec Pentabromodiphenyl Pentec C12H/BFr Pentec Pentabromodiphenyl Pentec C12H/BFr Pentec Pentabromodiphenyl Pentec Penta

[Table 5-2] Breakdown List of Substance	(Halogenated organic compounds)

Classification		Substance	Chemical Formula	CAS No.
Halogenated	Brominated flame	Brominated flame retardant that	—	_
organic	retardants *2	falls under the notation of ISO		
ompounds		1043-4 code number FR (22)		
		[Aliphatic/alicyclic chlorinated and		
		brominated compounds]		
		Brominated flame retardant that	—	_
		falls under the notation of ISO		
		1043-4 code number FR (42)		
		[Brominated organic phosphorous		
		Poly (2,6-dibromo-phenylene	(C6H2Br2O)X	69882-11-7
		oxide)		
		Tetradecabromo-	C18Br14O2	58965-66-5
		diphenoxybenzene		
		1,2-bis (2,4,6-tribromo-phenoxy)	C14H8Br6O2	37853-59-1
		ethane		
		3,5,3',5'-tetrabromo-bisphenol A	C15H12Br4O2	79-94-7
		(TBBA)		
		TBBA, unspecified	_	30496-13-0
		TBBA-epichlorohydrin oligomer	(C15H12Br4O2.C3H5Cl	40039-93-8
			O)X	10000 00 0
		TBBA-diglycidyl-ether oligomer		70682-74-5
		TBBA carbonate oligomer	(C15H12Br4O2.CCl2O)	28906-13-0
			(C13F112B1402.CCi2O) X	2000-10-0
		TBBA carbonate oligomer, phenoxy	^ (C7H5O2)(C16H10Br4	94334-64-2
		end capped	(C7H5O2)(C16H10B14 O3)	34334-04-2
		TBBA carbonate oligomer, 2,4,6-	(C7H2Br3O3)(C16H10	71342-77-3
		-	. ,.	/1342-//-3
		tribromophenol terminated	Br4)	00044.07.0
		TBBA-bisphenol A-phosgene	(C15H16O2.C15H12Br	32844-27-2
		polymer	402)	100000 50 5
		Brominated epoxy resin end-	—	139638-58-7
		capped with tribromophenol		105000 10 0
		Brominated epoxy resin end-	—	135229-48-0
		capped with tribromophenol		01050 11 0
		TBBA-(2,3-dibromo-propyl-ether)	C21H20Br8O2	21850-44-2
		TBBA bis-(2-hydroxy-ethyl-ether)	C19H20Br4O4	4162-45-2
		TBBA-bis-(allyl-ether)	C21H20Br4O2	25327-89-3
		TBBA-dimethyl-ether	C17H16Br4O2	37853-61-5
		Tetrabromo-bisphenol S	C12H6Br4O4S	39635-79-5
		TBBS-bis-(2,3-dibromo-propyl-	C18H14Br8O4S	42757-55-1
		ether)		
		2,4-dibromo-phenol	C6H4Br2O	615-58-7
		2,4,6-tribromo-phenol	C6H3Br3O	118-79-6
		Pentabromo-phenol	C6HBr5O	608-71-9
		2,4,6-tribromo-phenyl-allyl-ether	C9H7Br3O	3278-89-5
		Tribromo-phenyl-allyl-ether,	C9H7Br3O	26762-91-4
		unspecified		
		Hexabromo-cyclo-dodecane	C12H18Br6	3194-55-6
		(HBCD), unspecified		
		Alpha-hexabromocyclododecane	C12H18Br6	134237-50-6
		Beta-hexabromocyclododecane	C12H18Br6	134237-51-7
		Gamma-hexabromocyclododecane	C12H18Br6	134237-52-8
		Tetrabromo-cyclo-octane	C8H12Br4	31454-48-5
		1,2-dibromo-4-(1,2 dibromo-	C8H12Br4	3322-93-8
		methyl)-cyclo-hexane		
		Disodium tetrabromophthalate	C8Br4O4Na2	25357-79-3
		TBPA Na salt	C8Br4O3	632-79-1
		Tetrabromophthalic anhydride	C10H6Br4O4	55481-60-2
		Bis (methyl) tetrabromophthalate	C24H34Br4O4	26040-51-7
		(C=6~23)		
		2-hydroxy-propyl-2-(2-hydroxy-	C15H16Br4O7	20566-35-2
		ethoxy)-ethyl-TBP		
		1 –– – – – – – – – – 	—	75790-69-1
		TBPA, glycol-and propylene-oxide	•	
		IBPA, glycol-and propylene-oxide esters		
			C18H4Br8N2O4	32588-76-4
		esters	C18H4Br8N2O4	32588-76-4
		esters N,N'-Ethylene –bis- (tetrabromophthalimide)	C18H4Br8N2O4 C20H20Br4N2O4	
		esters N,N'-Ethylene –bis- (tetrabromophthalimide) Ethylene-bis(5,6-		
		esters N,N'-Ethylene –bis- (tetrabromophthalimide) Ethylene-bis(5,6- dibromonorbornane-2,3-		
		esters N,N'-Ethylene –bis- (tetrabromophthalimide) Ethylene-bis(5,6- dibromonorbornane-2,3- dicarboximide)	C20H20Br4N2O4	52907-07-0
		esters N,N'-Ethylene –bis- (tetrabromophthalimide) Ethylene-bis(5,6- dibromonorbornane-2,3-		32588-76-4 52907-07-0 3234-2-4 3296-90-0

Classification	Substance Group	Substance	Chemical Formula	CAS No.
Halogenated	Brominated flame	Tribromo-neopentyl-alcohol	C5H9Br3O	36483-57-5
organic	retardants *2	Poly tribromo-styrene	-	57137-10-7
compounds		Tribromo-styrene	C8H5Br3	61366-34-1
		Dibromo-styrene grafted PP	-	171091-06-8
		Poly-dibromo-styrene	C8H6Br2	31780-26-4
		Bromo-/Chloro-paraffins	—	68955-41-9
		Bromo-/Chloro-alpha-olefin	-	82600-56-4
		Vinyl bromide	C2H3Br	593-60-2
		Tris-(2,3-dibromo-propyl)-	C12H15Br5N3O3	52434-90-9
		isocyanurate		
		Tris-(2,4-dibromo-phenyl)-	C18H9Br5O4P	49690-63-3
		phosphate		
		Tris (tribromo-neopentyl)-	C15H24Br9O4P	19186-97-1
		phosphate		
		Chlorinated and brominated	-	125997-20-8
		phosphate esther		
		Pentabromo-toluene	C7H3Br5	87-83-2
		Pentabromo-benzyl bromide	C7H2Br6	38521-51-6
		1,3-Butadiene	-	68441-46-3
		homopolymer, brominated		
		Pentabromo-benzyl-acrylate, monomer	C10H5Br5O2	59447-55-1
		Pentabromo-benzyl-acrylate, polymer	(C10H5Br5O2)X	59447-57-3
		Decabromo-diphenyl-ethane	C14H4Br10O2	84852-53-9
		Tribromo-bisphenyl-maleinimide	C10H4Br3NO2	59789-51-4
		Brominated trimethylphenyl-lindane	C18H12Brn	_
		Other brominated flame retardant compounds	_	_
	Vinyl chloride polymer (PV	VVinyl chloride polymer (PVC)	(CH2CHCI)n	9002-86-2

*2: Brominated flame retardants except for PBBs and PBDEs. Indicate with ISO code 1043-4 or CAS No.

[Table 5-3] Breakdown List of Substances (Others)

assification	Substance Group	Substance	Chemical Formula	CAS No.
Others	Asbestos	Actinolite	Unspecified	77536-66-4
		Amosite	Unspecified	12172-73-5
		Anthophyllite	Unspecified	77536-67-5
		Chrysotile	Unspecified	12001-29-5
		Crocidolite	Unspecified	12001-28-4
		Tremolite	Unspecified	77536-68-6
		Asbestos	Unspecified	1332-21-4
		Other asbestos	—	—
	Azo dyes *3	Azo dyes that generate specific amines	—	_
	Ozone depleting substances *3	CFCs (Annex A Group I substances in the Montreal Protocol)	-	_
		Halons (Annex A Group II substances	-	_
		in the Montreal Protocol)		
	(Isomers included)	Other CFCs (Annex B Group I	-	_
		substances in the Montreal Protocol)		
		Carbon tetrachloride (Annex B Group II	-	—
		substance in the Montreal Protocol)		
		1.1.1-trichloroethane (Annex B Group	-	_
		III substance in the Montreal Protocol)		
		Bromochloromethane (Annex C Group	-	_
		III substance in the Montreal Protocol)		
		Methyl bromide (Annex E substance in the Montreal Protocol)	-	_
		HBFCs (Annex C Group II substances in the Montreal Protocol)	-	_
		,		
		HCFCs (Annex C Group I substances	_	—
		in the Montreal Protocol)		
	Radioactive substances	Uranium	U	_
		Plutonium	Pu	
		Radon	Rn	
		Americium	Am	_
		Thorium	Th	
		Cesium	Cs	7440-46-2
		Strontium	Sr	7440-24-6
		Other radioactive substances	-	
	Phthalates	Dibutylphthalate	C18H22O4	84-74-2
		Di(2-ethylhexyl)phthalate	C24H38O4	117-81-7
		Diisononyl phthalate	C24H38O4	28553-12-
		1,2-benzenedicarboxylic acid	C28H46O4	26761-40-
		diisodecyl ester		
		Butyl benzyl phthalate	C19H20O4	85-68-7
		di-n-octyl phthalate	C6H4(COO(CH2)7CH3)2	117-84-0
		Diisobutyl phthalate	(C6H4)(COOCH2CH(CH3)2)2	84-69-5
		Di-n-hexyl phthalate	C20H30O4	84-75-3
	Trichloroethylene	Trichloroethylene	C2HCI3	1979-1-6
	Tetrachloroethylene	Tetrachloroethylene	C2Cl4	127-18-4
	Dichloromethane	Dichloromethane	CH2Cl2	1975-9-2
	White phosphorus	White phosphorus	Р	7723-14-0
	Benzidine and its salt	Benzidine	C12H12N2	92-87-5
	4-aminobiphenyl and its salt	4-aminobiphenyl	C12H11N	92-67-1
	4-nitrobiphenyl and its salt	4-nitrobiphenyl	C12H9NO2	92-93-3
	Bis(chlorometyl) ether	Bis(chlorometyl)ether	C2H4Cl2O	542-88-1
	Beta-naphthylamine and its salt	Beta-naphthylamine and its salt	C10H7NH2	91-59-8
	Benzene	Benzene	C6H6	71-43-2
	Perchlorate compounds	Lithium perchlorate	LiClO4	7791-3-9
		Other perchlorate compounds	-	_
	Tris (2-chloroethyl) phosphate	Tris (2-chloroethyl) phosphate (TCEP)	C6H12Cl3O4P /	115-96-8

Classification	Substance Group	Substance	Chemical Formula	CAS No.
	PFC, SF6,HFC	Carbon tetrafluoride(Perfluoromethane)	CF4	75-73-0
		Perfluoroethane (Hexafluoroethane)	C2F6	76-16-4
		Perfluoropropane(Octafluoroproane)	C3F8	76-19-7
		Perfluorobutane (Decafluorobutane)	C4F10	355-25-9
		Perfluoropentane(Dodecafluoropentane		678-26-2
) Perfluorohexane(Tetradecafluorohexan	C6F14	355-42-0
		e) Perfluorocyclobutane	c-C4F8	115-25-3
		Sulfur Hexafluoride (SF6)	SF6	2551-62-4
		Trifluoromethane - (HFC-23)	CHF3	75-46-7
		Difluoromethane - (HFC-32)	CH2F2	1975-10-5
		Methyl fluoride – (HFC-41)	CH3F	593-53-3
		2H,3H-Decafluoropentane – (HFC-43- 10mee)	CF3CHFCHFCF2CF3	138495-42-8
		Pentafluoroethane (HFC-125)	C2HF5	354-33-6
		1,1,2,2-Tetrafluoroethane – (HFC-134)	CHF2CHF2	359-35-3
		1,1,1,2-Tetrafluoroethane – (HFC- 134a)	CH2FCF3	811-97-2
		1,1-Difluoroethane – (HFC-152a)	CH3CHF2	75-37-6
		1,1,2-Trifluoroethane–(HFC-143)	CH2FCHF2	430-66-0
		1,1,1-Trifluoroethane – (HFC-143a)	CH3CF3	420-46-2
			CF3CHFCF3	431-89-0
		<u>2H-Heptafluoropropane– (HFC-227ea)</u> 1,1,1,2,2,3-hexafluoro-propane (HFC-	CH2FCF2CF3	677-56-5
		236cb) 1,1,1,2,3,3-Hexafluoropropane –(HFC-	CHF2CHFCF3	431-63-0
		236ea) HFC-1,1,1,3,3,3-Hexafluoropropane –	CF3CH2CF3	690-39-1
		(HFC-236fa) 1,1,2,2,3-Pentafluoropropane –(HFC-	CH2FCF2CHF2	679-86-7
		245ca) 1,1,1,3,3-Pentafluoropropane –(HFC-	CHF2CH2CF3	460-73-1
		245fa) 1,1,1,3,3-Pentafluorobutane – (HFC-	CF3CH2CF2CH3	406-58-6
		365mfc)		
	Formaldehyhde	Formaldehyhde	H2CO	50-00-0
	Perfluorooctane sulfonyl fluoride(PFOSF)	Perfluorooctane sulfonyl fluoride(PFOSF)	C8F18O2S	307-35-7
	Pentachlorobenzene	Pentachlorobenzene	C6HCI5	608-93-5
	r-1,c-2,t-3,c-4,t-5,t-6- hexachlorocyclohexane(Alpha	r-1,c-2,t-3,c-4,t-5,t-6- hexachlorocyclohexane(Alpha	C6H6Cl6	319-84-6
	hexachlorocyclohexane) r-1,t-2,c-3,t-4,c-5,t-6-	hexachlorocyclohexane) r-1,t-2,c-3,t-4,c-5,t-6-	C6H6Cl6	319-85-7
	hexachlorocyclohexane (Beta hexachlorocyclohexane)	hexachlorocyclohexane (Beta hexachlorocyclohexane)		
	r-1,c-2,t-3,c-4,c-5,t-6- hexachlorocyclohexane (Gamma hexachlorocyclohexane or	r-1,c-2,t-3,c-4,c-5,t-6- hexachlorocyclohexane(Gamma hexachlorocyclohexane or lindane)	С6Н6СІ6	58-89-9
	Decachloropentacyclo [5.3.0 02,6.03,9,04,8] decane-5- one(Chlordecone)	Decachloropentacyclo [5.3.0 02,6.03,9,04,8] decane-5- one(Chlordecone)	C10CI10O	143-50-0
	2,4-Dinitrotoluene	2,4-Dinitrotoluene	C7H6N2O4	121-14-2
	Anthracene oil	Anthracene oil	-	90640-80-5
	Anthracene oil, anthracene	Anthracene oil, anthracene paste,	_	91995-17-4
	paste, distn. Lights Anthracene oil, anthracene	distn. Lights Anthracene oil, anthracene paste,	_	91995-15-2
		anthracene fraction		
	paste, anthracene fraction			
	paste, anthracene fraction Anthracene oil, anthracene-low Anthracene oil, anthracene paste	Anthracene oil, anthracene-low Anthracene oil, anthracene paste		90640-82-7 90640-81-6
	Anthracene oil, anthracene-low Anthracene oil, anthracene	Anthracene oil, anthracene-low	- - -	
	Anthracene oil, anthracene-low Anthracene oil, anthracene paste Aluminosilicate, Refractory	Anthracene oil, anthracene-low Anthracene oil, anthracene paste Aluminosilicate, Refractory Ceramic	_	
	Anthracene oil, anthracene-low Anthracene oil, anthracene paste Aluminosilicate, Refractory Ceramic Fibres Zirconia Aluminosilicate,	Anthracene oil, anthracene-low Anthracene oil, anthracene paste Aluminosilicate, Refractory Ceramic Fibres Zirconia Aluminosilicate, Refractory		90640-81-6
	Anthracene oil, anthracene-low Anthracene oil, anthracene paste Aluminosilicate, Refractory Ceramic Fibres Zirconia Aluminosilicate, Refractory Ceramic Fibres Coal tar pitch, high	Anthracene oil, anthracene-low Anthracene oil, anthracene paste Aluminosilicate, Refractory Ceramic Fibres Zirconia Aluminosilicate, Refractory Ceramic Fibres		90640-81-6

*3: The breakdowns of specific amines and ozone depleting substances are shown in Tables 3 and 4 respectively. Although Class II substances are not prohibited, they are included in the scope of investigation.

[Revision History]

Revision	Date	Contents
Revision	Date December 10. 1998	
2		Original was issued
3	July 1st, 2004	Completely revised
3	July 1st, 2005	page 1
		Explanation "This is the guideline" was added
		page 2
		Preface partially was revised
		page 6
		"Since neither an alternative" was added on (4) Controlled
		Chemical Substances (Rand C)
		page 13 - 16
		[Table 2] list was revised.
		Changed chemicals (gold, silver, copper, palladium and
		magnesium deleted)
		 Threshold value were added (RoHS directive materials)
		 Applications were corrected based on the latest RoHS directive
		Remarks were revised
		(Enactment form)
		Form 1
		Some questions are separated for manufacturing company and
		non-manufacturing company
		Form 2
		Definition of "Not contain" was changed
		Form 3
		Example were added
4	September 19th, 2006	page 2
-		Preface partially was revised
		page 13 - 18
		[Table 2] list was revised.
		Applications were corrected based on the latest information of RoHS directive
		Materials and the threshold values were added according to the revised
		Industrial Safety and Health Law.
		Remarks were revised
5	September 1st, 2008	Page 2
		Preface partially was revised.
		Page 5-6
		In "Definitions," minerals, substances, preparation and article were added.
		Page 6
		"We will give preferential treatment to partners implementing
		systems for properly controlling chemical substances contained
		in materials delivered to our company." added. Based on this, to "Environmental Protection
		Activity Survey," survey on "Product
		Environmental Quality Control" added to "Corporate Constitution" which has been surveyed
		conventionally.
		Page 7-9
		A table of submitted documents were added and brief explanation of
		submitted documents partly were revised.
		Page 11-16
		Attached table 2 "List of Prohibited/Controlled Chemical
		Substances" changed.
		 Applications partly were added in accordance with latest information of RoHS
		directives
		Addition of analysis method
		Class 1 specified chemical substance of Chemical Substances Control Law
		were added
		 Perfluorooctanesulfonic acid (PFOS) and its salts were added.
5	September 1st, 2008	[Established form]
	. ,	Form 1
		1-1 Corporate Constitution and 1-2 Product Environmental
		Quality Control were established
		Form 3
		3-1 for chemical substances and preparations and 3-2 for article were
		established
1		Form 4
		Review of the title of the form subject to guarantee

Revision	Date	Contents
6	October 1 st , 2009	Page 1, 6
		Revising the words of "Constitution of Enterprise" to Environmental
		Management System Page 7-8
		JAMP MSDSplus and AIS were added in a table of submitted documents.
		Brief explanation of submitted documents partly was revised.
		Page 11-16
		- [Table 2] List of Prohibited/Controlled Chemical Substances was changed.
		- Thresholds of Cd, Pb, Hg in battery were added.
		- Applications partly were added in accordance with latest information of RoHS directive.
		 Cobalt dichloride was added. C rank application of Dichloromethane was added.
		- 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) was added
		- Anthracene was added.
		- Tris (2-chloroethyl) phosphate was added.
		- PFC, SF6 and HFC were added.
		- Formaldehyhde was added.
		- Perchlorate compounds were added. [Established form]
		Form 1-1
		- The name of form was revised.
		Form 1-2
		- The name of form was revised.
		Form 2 - The name of form was revised.
		- Words of certificate were reviewed.
		- Table of target products was added.
		Form 3-1
		- The name of form was revised.
		- Inputting items were added
		- Notes were reviewed. Form 3-2
		- The name of form was revised.
		- Inputting items were added
		- Notes were reviewed.
		Form 4
		- The name of form was revised.
		Form 5 - The name of form was revised.
7	2010. 6. 1	Page 11-17
		- [Table 2] List of Prohibited/Controlled Chemical Substances was changed.
		- Applications partly were added in accordance with latest information of RoHS directive
		- Organotin compounds other than Bis (tri-n-butyltin) oxide (TBTO), Tributyltins (TBTs) and
		triphenyltins (TPTs) were added Diisobutyl phthalate and di-n-hexyl phthalate were added to
		target applies of phthalates.
		 C rank application of Dichloromethane was added. Class I specified chemical substances of Chemical Substances Control Law were added.
		- SVHCs of REACH regulation were added.
		- Dimethyl fumarate(DMF) was added.
		information of RoHS directive.
		- Organotin compounds other than Bis (tri-n-butyltin) oxide (TBTO), Tributyltins (T
		BTs) and triphenyltins (TPTs) were added Diisobutyl phthalate and di-n-hexyl phthalate were
		added to target applies of phthalates.
		- C rank application of Dichloromethane was added.
		- Class I specified chemical substances of Chemical Substances Control Law were added
		- SVHCs of REACH regulation were added. - Dimethyl fumarate(DMF) was added.
8	2012. 3. 1	Page 14-23
	, <u>, , , , , , , , , , , , , , , , , , </u>	- [Table 2] List of Prohibited/Controlled Chemical Substances was changed.
		- Applications were partly added in accordance with the latest information regarding the RoHS
		- Applications were partly added in accordance with the latest revisions of the European Union.
		REACH Regulation "Authorized"and "Restricted". - SVHCs of European Union REACH Regulation were added.
		- Exceptions of Hexachlorobenzene were added.
		- C rank application of other chlorine compounds was added.

Revision	Date	Contents
8.1	2012. 5. 1	Page 14-23
		- [Table 2] List of Prohibited/Controlled Chemical Substances
		was partially corrected
		-[Form 3-2] Purpose of containing was revised . -[Appendix 2] Table of intended use code was revised.
8.2	2012. 5. 15	Page 14-23
		- [Table 2] List of Prohibited/Controlled Chemical Substances
		was partially corrected
9.1	2013.10.15	We divided our conventional "Kyocera Green Procurement Guideline" into two and established
		guidelines "Kyocera Guideline on Environmentally Hazardous Substances" (this Guideline) that specifies the standards for product specifications for promoting green procurement and
		"Kyocera Guideline on Environmental Protection Activities (for Partners)" that describes the
		guiding principles for our idea of environmental protection activities. In concurrence with this,
		the description sentence in the first part was changed (P. 1-5) and Form 1 was transferred to
		the attached materials for "Kyocera Guideline on Environmental Protection Activities (for
		Partners)."
		< Change/addition to information in Attached Table 2>
		- No1 cadmium and its compounds
		Addition of threshold value lower than 100 ppm for cadmium (rank B) contained in photoresistor
		for analog optocouplers used in industrial audio devices starting on deadline January 1, 2014
		- No3 lead and its compounds
		(1) Instant change in the deadline regarding lead contained in dielectric ceramic in capacitors with rated voltage smaller than 125 VAC or 250 VDC
		(2) Instant change in the deadline regarding lead contained in connector systems other than C-
		press compliant pin
		(3) Dielectric for capacitors used in parts of integrated circuits and discrete devices
		Addition of threshold value lower than 1000 ppm regarding lead contained in lead zirconate
		titanate (PZT) based on ceramic starting on deadline July 22, 2016 - No4 mercury and its compounds
		 (1) Fluorescent lamps other than electric bulb type and compact type (small) fluorescent lamps
		or straight tube fluorescent lamps whose mercury content (per lamp) does not exceed (the
		following usage quantities):
		- Straight tube fluorescent halo-phosphate lamps with diameters larger than 28 mm: Instant
		change in deadline for 10 mg
		(2) Electric bulb type and compact type (small) fluorescent lamps whose mercury contents per burner do not exceed (the following quantities)
		(i) Lower than 30 W for general lighting purposes: Changed from 3.5 mg to 2.5 mg
		(ii) Standard service life using three band fluorescent substance with lamp diameter exceeding
		28 mm: Changed from 5 mg to 3.5 mg
		(iii) Cold cathode fluorescent lamps (CCFLs) and external electrode fluorescent lamps (EEFLs)
		used for special applications whose mercury content per lamp do not exceed (the following
		quantity) - Long lamps (exceeding 1500 mm): Changed from 13 mg to 10 mg
		- No5 tri-substituted organostannic compounds (TBTO, TBTs, TPTs)
		Clear description of 1000 ppm since the rank B threshold values was not stated
		- No79 hexabromocyclododecane (HBCDD) Deadline changed from January 1, 2015 to
		January 1, 2014
		- Addition of SVHC substances under European REACH regulation No.107 to No.118 (7th)/No.119 to No.152 (8th)/No.153 to No.156 (9th)
		- Addition in Remarks of Attached Table 2 in order to clarify the substances specified by
		IEC62474 (International Electrotechnical Commission)
		Description "MSDS" in the main text corrected to "SDS"
10	2014.3.1	We append the banned definition for a hazardous materials in P3 4 c
		Additional of SVHC materials in EU REACH
		No.157 – 161 (10th additional)
10.1	2014.9.1	Additional of SVHC materials in EU REACH
		No.162 – 164 (11th additional)
10.2	2015.3.1	Additional of SVHC materials in EU REACH
		No.165 – 168 (12th additional)
11	2015.9.1	<change 2="" addition="" attached="" in="" information="" table="" to=""></change>
		Additional of SVHC materials in EU REACH
		No.170 – 171 (13th additional)
		Adding 「Red phosphorus」 to No.29
		\cdot Adding $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
		\cdot The deletion of No.63 "Anthracene" in previous version because it is included in the
		Polycyclic aromatic

Revision Date Contents 11 2015.9.1 • Changing the year and month of "Note1" in P20 to April 2015 • No.1 Cadmium and its compounds **(Instant change in the deadline regarding Cadmium in colour converting II-VI LEDs (< 'Cd per rm 2 of light-emitting area) for use in solid state illumination or display systems **(Instant change in the deadline regarding Cadmium in photoresist for analog opto-coupl be used for professional audio equipment. • No.3 Lead and its compounds **(Instant change in the deadline regarding Lead in linear incandescent lamps with silicatic coated tubes. • No.4 Mercury and its compounds • No.6 Mercury and its compounds **(Instant change in the deadline regarding Mercury in High Pressure Mercury (vapour) lamps (HPMV) • No.6 Dibutytitin (DBT) compounds **(Instant change in the deadline regarding More than 1000 ppm (or0.1 wt%) of the tin contained in materials • No.11 Arsenic and arsenic compounds **(Instant change in the deadline regarding B rank use • No.38 Phthalates **(Instant change in the deadline regarding B rank use • No.64 Tris(2-chloroethyl) phosphate **(Instant change in the deadline regarding B rank use • No.79 Hexabromocyclododecane (HBCDD) **(Instant change in the deadline regarding B rank use • No.717 - 181 (15h, 16th additional) 11.1 2016.2.1 11.1 2016.2.1 Additional of SVHC materials in EU REACH	ms upler to ate
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• No.26 Vinyl chloride polymer (PVC) ※Adding B rank use	
XAdding B rank use	
· No 27 Asheetos	
XAdding Intentional Use Prohibit	
No.36 Azo dyes that generate certain specific amines	
*Adding Threshold value : 30ppm	
5 11	
• No.38 Phthalates	
Changed the standard based on RoHS Directive in July,2019	
No.43 Perfluorooctane sulfonate (PFOS) and its salts	
XAdd "Stockholm Convention on Persistent Organic Pollutants" in remarks	
No.66 Formaldehyhde	
XAdding B rank use	
No78 Dimethyl fumarate(DMF)	
*Adding Threshold value : 0.1ppm	
No79 Hexabromocyclododecane (HBCDD)	
*Adding Threshold value : 100ppm	
Additional of SVHC materials in EU REACH	
No.182 – 190 (17th & 18th additional)	
13 2020.4.15 On P5, add the following as Item 6: [Request concerning control of 4 phthalate esters res	estricted
under RoHS Directives/Reach Regulations]	
[Former Item 6] becomes [Item 7] and [former Item 7] becomes [Item 8]. <change 2="" addition="" attached="" in="" information="" table="" to=""></change>	
No.1 Cadmium and cadmium compounds	
※Reflect content of revisions to usage exemptions in the latest RoHS Directive	
No.3 Lead and its compounds	
※Reflect content of revisions to usage exemptions in the latest RoHS Directive	
No.4 Mercury and its compounds	
※Reflect content of revisions to usage exemptions in the latest RoHS Directive	
No.6 Dibutyltin (DBT) compounds	
※Restrictions on applications for Rank B substances, and addition of Rank C substance	
No.22 Polychlorinated naphthalenes	inces
*Amendment to chlorine numbers	inces

Revision	Date	Contents
		No.26 Vinyl chloride polymer (PVC)
		※amendments to time limits for complete abolition
		No.29 Red phosphorus
		*Restrictions on Rank B substance applications, and amendments to time limits for
		complete
		No.38 Phthalates
13		%Addition of details on REACH Regulation restrictions for Rank B substances
		No.43 Perfluorooctane sulfonate (PFOS) and its salts
		※Additional Rank B substance applications
	2020.4.15	No.66 Formaldehyhde
		* XAmendments to details of Rank B applications and Rank C applications
		• No.156 APFO(Ammonium pentadecafluorooctanoate)
		*Amendments to details of listed substance names
		No.157 PFOA(Pentadecafluorooctanoic acid)
		*Additional Rank B substance applications
		Additional of SVHC materials in EU REACH
		No.191 – 210 (19th,20th,21st & 22nd additional)
		Changed year and month of RoHS Directive and REACH Regulation of "Note 1"in P23
		• P3 : Change Kyocera's Environmental Charter to Kyocera Group Environmental
		Safety Policy
		• P4 ∶ Add the following as Item 2(2): 「purchases made by Non-production sector」
	2021.11.1 2023.2.28	• P5 : Cange Material Safety Data Sheet to Safty Date Sheet
		• P7-8 : "JAMP MSDSplus" and "JAMP AIS" deleted from [Table 1:Submitted
		documents for
		information on substances of environmental concerns] and [Explanation of submitted
		documents].
		 * 2 has been changed. • P9 : Partial rewriting of the information in Item 6
		Change/addition to information in Attached Table 2>
		Additional of * 9
14		Substance No.5, 21, 23, 120, 157, 211, 212
14		Ranked B for all applications by U.S. TSCA regulations
		Substance No.56, 214, 215
		Ranked C by U.S. TSCA regulations
		Substance No.213, 216
		Additional of * 15
		Substance No.213
		Ranked C by CEPA(Canadian Environmental Protection Act) * 14
		Substance No.189, 231 Change SVHC to Authorization in EU REACH
		Substance No.95, 160, 162, 164~167, 170, 171, 173,174
		· Additional of SVHC materials in EU REACH
		Substance No.217 – 230 (23rd,24th & 25th additional)
		• Additional of SVHC materials in EU REACH
14.1		
		No.232 – 245 (26th,27th, & 28th additional)