Control Rules for Environment-related Substances Used in Product

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1. Purpose

These rules pertain to environment-related substances used in the products of Olympus Group (this is hereinafter referred to as "Olympus"). They are to ensure that Olympus products comply with laws and regulations by defining criteria for prohibiting or controlling the substances, as well as to reduce environmental load.

2. Scope

2.1 Items

(1) Products (shipped out by Olympus)

- Products designed, manufactured and sold by Olympus
- Products designed and manufactured by third parties, and sold by Olympus with its trademark attached
- Products designed and manufactured by Olympus and supplied to a third party as OEM products.

(Note1) In this case, third parties are responsible for requiring Olympus to comply with these regulations.

(Note2) These rules do not apply to the components or materials specified by the third party.

(2) Parts and materials (delivered to Olympus, and used in "(1) Products" above)

- Subassemblies (e.g., assembly parts such as function units, modules and board assemblies)
- Components and materials (e.g., electrical components, components of machinery, components of electric machinery, semiconductors, printed wiring boards.)
- Parts for repair and maintenance services
- Accessories (e.g., accessories, such as AC adaptors, necessary for device operation)
- Subsidiary materials (e.g., solder materials, adhesives, lubricants, reinforcing materials, tapes, paints, inks.)
- Printed materials (e.g., instruction manuals, brochures.)
- Materials for sales promotion (e.g., labels.)

(3) Packaging materials

- Packaging materials and components used to ship out products
- Packaging subsidiary materials (e.g., adhesives, lubricants, reinforcing materials, tapes, paints, inks.)

(Except for packaging materials disposed of during Olympus manufacturing processes.)

(Note) Olympus may require our suppliers to comply with the rules herein in the following cases;

- Products distributed by Olympus for sales promotion purposes (e.g., novelty items bearing Olympus's name)

2.2 Laws and regulations

Based on major global treaties, laws, ordinances and industry standards (hereinafter called "regulations"), these rules state the requirements of regulations regarding Olympus Group products. However, they may not cover all of these regulations. If there are additional requirements in regions where products are sold, Olympus global, regional, and local business centers and their suppliers shall obey those requirements.

3. Terms and Definitions

The following definitions are applied to the terms used in these rules.

(1) Environment-related substances

These substances have significant influence on human health and the environment. They are specified by Olympus as “prohibited” or “controlled” substances, in accordance with laws and regulations.

(2) Joint Article Management Promotion-Consortium (JAMP)

JAMP is a Japanese consortium that manages information on chemical substances contained in an article appropriately and operates a system to disclose and efficiently transmit this information through companies in the supply chain.

(3) Substance group

This is a collective term for a chemical substance and its chemical compounds, or a collective term for several substances that possess similar chemical structures, toxicities, and/or harmful effects on the environment.

(4) Inclusion

This is defined as the addition or adhesion of substances to, or mixture of substances with, raw materials, parts, or products, whether intentionally or otherwise. The addition, adhesion or mixture of impurities is also regarded as inclusion.

(5) Intentional use

This is the situation where a substance is contained in products because of deliberate addition, filling, blending, or adhesion, in order to provide a specific characteristic, appearance or quality.

(6) Impurities

Natural impurities contained in natural raw materials and technically impossible to be completely removed in the refining process for industrial materials, or substances that are created in the synthetic reaction process but technically impossible to be completely removed.

(Note) If any substances that are referred to as “impurities” (in order to distinguish them from main raw materials) are added to materials to change their characteristics, such substances are deemed to be “intentionally included”.

(7) Substance (REACH Article 3: Definitions)

It means a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition.

(8) Article (REACH Article 3: Definitions)

An object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.

(9) Mixture (REACH Article 3: Definitions)

A mixture or solution composed of two or more substances.

(10) Homogeneous materials

Homogeneous materials are materials that cannot be mechanically separated anymore and have a homogeneous composition. Examples are plastic, ceramics, glass, metals, alloys, paper, boards, resins and coatings. Mechanical separation means separation by mechanical processes, such as removing screws, cutting, crushing, grinding and polishing.

(11) Metal conversion factor

This is the factor used to calculate the weight of a metallic element in a metallic compound from the weight of the metallic compound. The weight of a metallic element in a metallic compound can be obtained by multiplying the weight of the metallic compound by the metal conversion factor.

(12) CAS No.

This is the registration number for chemical substances allocated by the Chemical Abstracts Service (CAS), which is a division of the American Chemical Society. CAS numbers are used globally to identify chemical substances since there are several different ways of writing the names of chemical substances.

(13) JAMP Substance Numbers (JAMP-SN)

The number introduced by JAMP for some substances and groups that do not have a CAS No. (SN stands for "Substance Number").

(14) Control value

The concentrations defined by Olympus to ensure that the amounts of substances contained in items do not exceed the concentrations regulated.

(15) Dates of ban on delivery

Dates when Olympus imposes ban on delivery from their suppliers to Olympus. Olympus determines them to ensure observance of the effective dates of regulations. (They are six months before the effective dates.)

In case that Olympus's business centers set their own dates of ban on delivery, these dates set by business centers take precedence over the ones herein.

4. Rules

4.1 The environment-related substances and control classification

The environment-related substances designated by Olympus are listed in Table 1. They are classified into two categories: "prohibited substances" and "controlled substances".

4.2 Prohibited substances

Prohibited substances are classified into the two following levels based on their date of ban on delivery.

(1) Prohibited substances Level 1:

These substances are immediately prohibited. Exceptions apply in the following cases:

- They have 'a control value' and can be used below that value.
- They have 'an exemption' and can be used for that application provided that their concentrations and their location of use shall be reported.

(2) Prohibited substances Level 2:

These substances will be prohibited after their date of ban on delivery.

- They are acceptable to use until their date of ban on delivery.
- Date of ban on delivery may be revised if the effective date of a regulation is changed.

Criteria for managing prohibited substances are shown in Table 2.

- Prohibition level, date of ban on delivery, applications, control values, exemptions, notes
- Examples of substances (They do not cover all the substances in this substance group.) or regulated substances.
- Principal uses for substances

4.3 Controlled substances

If the content of a controlled substance exceeds its control value, the substance, the concentrations, and the location of use shall all be reported.

Criteria for managing controlled substances are shown in Table 3.

- Applications, control values and notes

4.4 Control value

Unless otherwise designated, the control values are the concentrations of substances in homogeneous materials.

- In complex components (assemblies), it is the concentration in each article of that component (not what is in the whole component).
- In surface treatment coatings, it is the concentration in the coating.
- In metal compounds that have metal conversion factors, the control values are the respective concentrations of the metal elements included in those compounds. In metal compounds that have no metal conversion factors, the control values are the concentrations of the whole metal compound.

Table 1 Environment-related Substances

Class	Major division	No.	Substance group	Detail
(I) Prohibited substances	Metal and metal compounds (including their alloys)	I-1	Cadmium and its compounds	Table 2-I-1
		I-2	Hexavalent chromium compounds	Table 2-I-2
		I-3	Lead and its compounds	Table 2-I-3
		I-4	Mercury and its compounds	Table 2-I-4
		I-5	Trisubstituted organotin compounds (including tributyltin compounds (TBTs) and triphenyltin compounds (TPTs))	Table 2-I-5
		I-6	Dibutyltin compounds (DBT)	Table 2-I-6
		I-7	Dioctyltin compounds (DOT)	Table 2-I-7
		I-8	Nickel and its compounds	Table 2-I-8
	Halogenated organic compounds	I-9	Polybrominated biphenyl (PBBs)	Table 2-I-9
		I-10	Polybrominated diphenyl ether (PBDEs)	Table 2-I-10
		I-11	Polychlorinated biphenyl (PCBs)	Table 2-I-11
		I-12	Polychlorinated terphenyls (PCTs)	Table 2-I-12
		I-13	Polychlorinated naphthalene (with more than 3 chlorine atoms)	Table 2-I-13
		I-14	Short-chained chlorinated paraffin (having the chain length of 10 - 13)	Table 2-I-14
		I-15	Polyvinyl chloride (PVC)	Table 2-I-15
		I-16	Hexabromocyclododecane (HBCDD)	Table 2-I-16
		I-17	Pentachlorothiophenol (PCTP)	Table 2-I-17
		I-18	Hexachlorobutadiene (HCBD)	Table 2-I-18
		I-19	Hexachlorobenzene (HCB)	Table 2-I-19
		I-20	Dechlorane Plus	Table 2-I-20
	Others	I-21	Asbestos	Table 2-I-21
		I-22	Azo dyes and pigments (specific amines formed by degrading azo dies and pigments)	Table 2-I-22
		I-23	Ozone depleting substances (listed in Montreal Protocol)	Table 2-I-23
		I-24	Perfluorooctane sulfonic acid (PFOS), its salts, and PFOS-related compounds	Table 2-I-24
		I-25	Specific benzotriazole: 2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol	Table 2-I-25
		I-26	Formaldehyde	Table 2-I-26
		I-27	Dimethylfumarate (DMF)	Table 2-I-27
		I-28	Fluorinated Greenhouse Gases (PFC, SF6, HFC)	Table 2-I-28
		I-29	Phthalate esters (BBP, DBP, DEHP, DIBP)	Table 2-I-29
		I-30	Perfluorooctanoic acid (PFOA) and its salts and esters and certain Long-Chain Perfluoroalkyl Carboxylates (LCPFAC)	Table 2-I-30
		I-31	Polycyclic aromatic hydrocarbon (PAH)	Table 2-I-31
		I-32	Pentachlorophenol and its salts and esters	Table 2-I-32
		I-33	Phenol, isopropylated phosphate (3:1)	Table 2-I-33
		I-34	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	Table 2-I-34

		I-35	Long-chain perfluorocarboxylic acids (LC-PFCAs (C9-C21)) and their salts, and LC-PFCAs related substances	Table 2-I-35
		I-36	Perfluorohexanoic acid (PFHxS) and its salts and PFHxS related substances	Table 2-I-36
		I-37	UV-328	Table 2-I-37
		I-38	Medium Chain Chlorinated Paraffins (MCCP)	Table 2-I-38
(II) Controlled substances	Others	II-1	Candidate List of Substances of Very High Concern in REACH(SVHC)	Table 3-II-1
		II-2	Substances subject to the European Union's Medical Device Regulation (EU-MDR) or In Vitro Diagnostic Medical Device Regulation (EU-IVDR)	Table 3-II-2
		II-3	Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	Table 3-II-3
		II-4	Mineral Oil	Table 3-II-4

(Note)

- I-10, I-17, I-18, I-33, I-34 are substances that are persistent, bio-accumulative, and toxic chemicals (PBTs) identified pursuant to section 6(h) of the Toxic Substances Control Act (TSCA). Please see Table 2-I-10, Table 2-I-17, Table 2-I-18, Table 2-I-33, and Table 2-I-34 for details.
- Applications of II-2 "Substances subject to the European Union's Medical Device Regulation (EU-MDR) or In Vitro Diagnostic Medical Device Regulation (EU-IVDR)" are limited to components and subsidiary materials that are used in products subject to EU-MDR or EU-IVDR, and that come into direct or indirect contact with the patient. Please see Table 3-II-2 for details.

Table 2 Criteria for managing prohibited substances.

Table 2-I-1 Cadmium and its compounds

(1) Details

No. I-1	Substance Group: Cadmium and its compounds			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Surface processing (e.g. plating) and coating (except for electrical contacts requiring a high level of safety and reliability, and for which no substitute exists) ・Fluorescence lamps and photographic film ・Stabilizer, pigment and dye used for plastics (including rubbers) ・Paints and inks	-Less than 75 ppm in homogeneous material	*1
		・Packaging materials	-Less than 100 ppm in homogeneous material	*2
	Immediate Exclusions from RoHS Directive: 6 months prior to expiration	・Electric and electronic equipment subject to RoHS Directive (2011/65/EU)	-100 ppm or less in homogeneous material	*3
	Immediate	・Portable Battery	・Less than 20 ppm relative to battery weight	*4
Exemption	Please refer to the EU RoHS ANNEX III and ANNEX IV.			
Note	*1 Because the Danish cadmium control act has been amended to reflect RoHS Directive (2011/65/EU), the control value is set at 100 ppm for products subject to RoHS Directive (2011/65/EU) and 75 ppm for products not covered by RoHS Directive (2011/65/EU). Annex XVII to REACH (restriction), ChemVerbotsV (Germany) *2 The total concentration of four heavy metals (cadmium, hexavalent chromium, lead and mercury) in packaging materials must be considered. In the case of printing inks used on packaging, the total concentration of these four heavy metals included in the solid ingredients of the inks must be considered. EU Directive on packaging materials and Regulations on Heavy Metals in Packaging (U.S.A.). *3 RoHS Directive (2011/65/EU) and Annex II of (EU) 2015/863 *4 EU Battery Regulation ((EU)2023/1542)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
カドミウム	Cadmium	Cd	7440-43-9	1.000
酸化カドミウム(II)	Cadmium oxide	CdO	1306-19-0	0.875
硫化カドミウム	Cadmium sulfide	CdS	1306-23-6	0.778
塩化カドミウム	Cadmium chloride	$CdCl_2$	10108-64-2	0.613

硫酸カドミウム(II)	Cadmium sulfate	$CdSO_4$	10124-36-4 31119-53-6	0.539
		$CdH_6O_{16}S_4$	119222-01-4	0.224
硝酸カドミウム	Cadmium Nitrate	$Cd(NO_3)_2$	10325-94-7	0.475
炭酸カドミウム	Cadmium carbonate	$CdCO_3$	513-78-0	0.652
硫セレン化カドミウム	Cadmium selenide sulfide	Cd_2SSe	12214-12-9	0.669
セレン化カドミウム	Cadmium Selenide	CdSe	1306-24-7	0.587
テルル化カドミウム	Cadmium Telluride	CdTe	1306-25-8	0.468
水酸化カドミウム	Cadmium Hydroxide	$Cd(OH)_2$	21041-95-2	0.768
ステアリン酸カドミウム	Cadmium Stearate	$Cd(C_{17}H_{35}COO)_2$	2223-93-0	0.166
フッ化カドミウム	Cadmium fluoride	CdF_2	7790-79-6	0.747
シロキサンおよびシリコーン, 3-[(2-アミノエチル)アミノ]プロピルメチル, ジメチル, セレン化硫化亜鉛カドミウム, ラウリン酸, オレイルアミンとの反応生成物	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, reaction products with cadmium zinc selenide sulfide, lauric acid and oleylamine	-	1623456-05-2	-
その他のカドミウム化合物	Other cadmium compounds	-	JAMP-SN0016	-

(3)Principal uses for substances

Part	Purpose
Corrosion-resistant plating, decorative coatings, printing inks, NiCd batteries, vinyl chloride sheaths for wires and cords, fuses, fluorescent materials, optical glasses (filters)	Anticorrosion surface treatment, pigments, battery and electrical materials, plastic stabilizers, optical materials

Table 2-I-2 Hexavalent chromium compounds

(1) Details

No. I-2	Substance Group: Hexavalent chromium compounds			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Packaging materials	-Less than 100 ppm in homogeneous material	*1
		・Substances and mixtures that contain chemicals with the following CAS numbers: Lead (II) chromate: 7758-97-6 Lead chromate molybdate sulphate red: 12656-85-8 Chromium (VI) trioxide: 1333-82-0 Oligomers of chromic acid and dichromic acid: 13530-68-2 Chromic acid: 7738-94-5 Sodium dichromate: 10588-01-9 Sodium dichromate dihydrate: 7789-12-0 Potassium dichromate: 7778-50-9 Ammonium dichromate: 7789-09-5 Potassium chromate: 7789-00-6 Sodium chromate: 7775-11-3 Pentazinc chromate octahydroxide: 49663-84-5 Strontium chromate: 7789-06-2 Dichromium tris(chromate): 24613-89-6	Intentional inclusion prohibited	*2

		Potassium hydroxyoctaoxodizincatedichromate: 11103-86-9		
	Immediate Exclusions from RoHS Directive: 6 months prior to expiration	・Electric and electronic equipment subject to RoHS Directive (2011/65/EU)	・1000 ppm or less in homogeneous material	*3
Exemption	Please refer to the EU RoHS ANNEX III and ANNEX IV.			
Note	*1 The total concentration of four heavy metals (cadmium, hexavalent chromium, lead and mercury) in packaging materials must be considered. In the case of printing inks used on packaging, the total concentration of these four heavy metals included in the solid ingredients of the inks must be considered. EU Directive on packaging materials and Regulations on Heavy Metals in Packaging (U.S.A.). *2 Annex XIV to REACH (authorizations) *3 RoHS Directive (2011/65/EU) and Annex II of (EU) 2015/863			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
重クロム酸ナトリウム	Sodium dichromate	$Na_2Cr_2O_7$	10588-01-9	0.349
重クロム酸ナトリウム・２水和物	Sodium dichromate, dihydrate	$Na_2Cr_2O_7$ 、$2H_2O$	7789-12-0	0.349
酸化クロム(VI)	Chromium (VI) trioxide	CrO_3	1333-82-0	0.520
クロム酸カルシウム	Calcium chromate	$CaCrO_4$	13765-19-0	0.333
クロム酸鉛(II)	Lead (II) chromate	$PbCrO_4$	7758-97-6	0.161
重クロム酸カリウム	Potassium dichromate	$K_2Cr_2O_7$	7778-50-9	0.354
クロム酸カリウム	Potassium chromate	K_2CrO_4	7789-00-6	0.268
クロム酸バリウム	Barium chromate	$BaCrO_4$	10294-40-3	0.205
クロム酸ナトリウム	Sodium chromate	Na_2CrO_4	7775-11-3	0.321
クロム酸ストロンチウム(II)	Strontium chromate	$SrCrO_4$	7789-06-2	0.255
クロム酸亜鉛(II)	Zink chromate	$ZnCrO_4$	13530-65-9	0.287
クロム酸鉛(C.Iピグメントイエロー34)	Lead sulfochromate yellow (C.I.Pigment Yellow 34)	Unspecified	1344-37-2	-
塩基性クロム酸鉛	C.I. Pigment Orange 21	Unspecified	1344-38-3	-
クロム酸	Chromic acid	CrH_2O_4	7738-94-5	0.441
クロム酸及び重クロム酸オリゴマー	Oligomers of chromic acid and dichromic acid	-	JAMP-SN0071	
重クロム酸、二クロム酸	Dichromic acid; Chromic acid	$H_2Cr_2O_7$	13530-68-2	0.477
二クロム酸アンモニウム	Ammonium dichromate	$(NH_4)_2Cr_2O_7$	7789-09-5	0.413
硫酸モリブデン酸クロム酸鉛(C.Iピグメントレッド104)	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	Unspecified	12656-85-8	-
トリス(クロム酸)二クロム(III)	Dichromium tris(chromate)	Cr_5O_{12}	24613-89-6	0.575
クロム酸八水酸化五亜鉛	Pentazinc chromate octahydroxide	$CrH_8O_{12}Zn_5$	49663-84-5	0.090
ヒドロキシオクタオキソ二亜鉛酸二クロム酸カリウム	Potassium hydroxyoctaoxodizincatedichromate	$Cr_2K_2O_8Zn$	11103-86-9	0.277

その他の六価クロム化合物	Other hexavalent chromium compounds	-	JAMP-SN0019	-

(3) Principal uses for substances

Part	Purpose
Metal corrosion-proof chromate treatment (galvanizing, electrode plating, alloys, die-casting), alumite dyes, anticorrosion paints, black chrome plating	Anticorrosion surface treatment, pigments, anticorrosion pigments, paint desiccants

Table 2-I-3 Lead and its compounds.

(1) Details

No. I-3	Substance Group: Lead and its compounds			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Packaging materials	-Less than 100 ppm in homogeneous material	*1
		・Cable stabilizer used for insulating sheaths whose main ingredient is PVC (especially used in the parts of the sheaths touched routinely with hands)	-Less than 300 ppm in PVC cable insulating sheath	*2
		・Substances and mixtures that contain chemicals with the following CAS numbers: Lead (II) chromate: 7758-97-6 Lead sulfochromate yellow (C.I. Pigment Yellow 34): 1344-37-2 Lead chromate molybdate sulphate red (C.I. Pigment Red 104): 12656-85-8	-Intentional inclusion prohibited	*3
	Immediate Exclusions from RoHS Directive: 6 months prior to expiration	・Electric and electronic equipment subject to RoHS Directive (2011/65/EU)	-1000 ppm or less in homogeneous material	*4
	Immediate	・Article manufactured from "vinyl chloride polymer or copolymer (PVC)"	・Less than 1000ppm	*5
	Immediate	・Portable battery	・Less than 100 ppm by battery weight	*6
Exemption	*4 Please refer to the EU RoHS ANNEX III and ANNEX IV. *5 Products subject to 2011/65/EU (RoHS Directive), 94/62/EC (Packaging Materials and			

	Packaging Waste Directive) *6 Portable zinc-air button batteries are excluded until August 18, 2028
Note	*1 The total concentration of four heavy metals (cadmium, hexavalent chromium, lead and mercury) in packaging materials must be considered. In the case of printing inks used on packaging, the total concentration of these four heavy metals included in the solid ingredients of the inks must be considered. EU Directive on packaging materials and Regulations on Heavy Metals in Packaging (U.S.A.). *2 Labeling is required if the inclusion level exceeds the 300 ppm level stipulated in the out-of-court settlement of a lawsuit alleging non-compliance with the warning labeling requirements provided by Proposition 65 in the State of California. The control value, therefore, is set at less than 300 ppm. *3 Annex XIV to REACH (authorizations) *4 RoHS Directive (2011/65/EU) and Annex II of (EU) 2015/863, ChemVerbotsV (Germany) *5 Annex XVII to REACH (restriction) *6 EU Battery Regulation ((EU)2023/1542)

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
鉛	Lead	Pb	7439-92-1	1.000
炭酸鉛	Lead carbonate	$PbCO_3$	598-63-0	0.775
二酸化鉛	Lead (IV) oxide	PbO_2	1309-60-0	0.866
四三酸化鉛	Orange lead (Lead tetroxide)	Pb_3O_4	1314-41-6	0.907
硫化鉛	Lead (II) sulfide	PbS	1314-87-0	0.866
一酸化鉛	Lead monoxide (Lead oxide) ; Lead (II) oxide	PbO	1317-36-8	0.928
水酸化炭酸鉛(II)	Trilead bis(carbonate)dihydroxide	$C_2H_2O_8Pb_3$	1319-46-6	0.801
水酸化炭酸鉛(2)	Lead (II) hydroxidcarbonate	$C_2H_2O_6Pb$	1344-36-1	0.629
硫酸鉛	Lead sulfate	$PbSO_4$	7446-14-2	0.683
燐酸鉛	Trilead bis(orthophosphate)	$Pb_3(PO_4)_2$	7446-27-7	0.766
クロム酸鉛(II)	Lead chromate	$PbCrO_4$	7758-97-6	0.641
チタン酸鉛	Lead titanate	$PbTiO_3$	12060-00-3	0.684
硫酸鉛	Lead sulfate	Pb_XSO_4	15739-80-7	-
三塩基性硫酸鉛	Tetralead trioxide sulphate	$Pb_4O_3(SO_4)$	12202-17-4	0.852
ステアリン酸鉛	Lead stearate	$Pb(C_{17}H_{35}COO)_2$	1072-35-1	0.268
ステアリン酸二鉛	Dibasic lead stearate	$2PbO・Pb(C_{17}H_{35}COO)_2$	56189-09-4	0.409
酢酸鉛(II)	Lead di(acetate)	$Pb(CH_3COO)_2$	301-04-2	0.637
酢酸鉛(II)・三水和物	Lead (II) acetate trihydrate	$Pb(CH_3COO)_2・3H_2O$	6080-56-4	0.546
セレン化鉛	Lead selenide	PbSe	12069-00-0	0.724
ジルコン酸鉛	Lead zirconate	$PbZrO_3$	12060-01-4	0.598
水酸化鉛	Hydroxylead	$Pb(OH)_2$	1311-11-1	0.859
硝酸鉛	Lead dinitrate	$Pb(NO_3)_2$	10099-74-8	0.626
ヒ酸鉛(II)	Trilead diarsenate	$Pb_3(AsO_4)_2$	3687-31-8	0.691
酸性ヒ酸鉛	Lead hydrogen arsenate	$AsH_3O_4.Pb$	7784-40-9	0.593
トリニトロレゾルシン鉛	Lead styphnate	$C_6HN_3O_8Pb$	15245-44-0	0.460
アジ化鉛	Lead diazide	N_6Pb	13424-46-9	0.711
ピクリン酸鉛(II)	Lead dipicrate	$C_{12}H_4N_6O_{14}Pb$	6477-64-1	0.312

メタンスルホン酸鉛(II)	Lead (II) bis(methanesulfonate)	$C_2H_6O_6PbS_2$	17570-76-2	0.521
硫酸モリブデン酸クロム酸鉛(C.Iピグメントレッド104)	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	Unspecified	12656-85-8	-
クロム酸鉛(C.Iピグメントイエロー34)	Lead sulfochromate yellow (C.I.Pigment Yellow 34)	Unspecified	1344-37-2	-
ジオキソ（フタラト）三鉛	[Phthalato(2-)]dioxotrilead	$C_8H_4O_6Pb_3$	69011-06-9	0.760
ケイ酸とバリウムの塩(1：1)(鉛ドープ)	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped	Unspecified	68784-75-8	
ケイ酸と鉛の塩	Silicic acid, lead salt	Unspecified	11120-22-2	
シアナミド鉛	Lead cyanamidate	CH_2N_2Pb	20837-86-9	0.831
ジオキソビス(ステアリン酸)三鉛	Dioxobis(stearato)trilead	$C_{36}H_{70}O_6Pb_3$	12578-12-0	0.509
ジルコン酸チタン酸鉛	Lead titanium zirconium oxide	Unspecified	12626-81-2	
四エチル鉛	Tetraethyllead	$C_8H_{20}Pb$	78-00-2	0.641
ピグメントエロー41	Pyrochlore, antimony lead yellow	Unspecified	8012-00-8	
四フッ化ホウ酸鉛(II)	Lead bis(tetrafluoroborate)	B_2F_8Pb	13814-96-5	0.544
塩基性クロム酸鉛	C.I. Pigment Orange 21	Unspecified	1344-38-3	
塩基性亜硫酸鉛	Sulfurous acid, lead salt, dibasic	Unspecified	62229-08-7	
塩基性酢酸鉛	Acetic acid, lead salt, basic	Unspecified	51404-69-4	
塩基性硫酸鉛	Lead oxide sulfate (Pb2O(SO4))	$Pb_2O(SO_4)$	12036-76-9	0.787
塩基性硫酸鉛	Pentalead tetraoxide sulphate; Lead oxide sulfate (Pb5O4(SO4))	$Pb_5O_4(SO_4)$	12065-90-6	0.866
脂肪酸鉛塩(炭素数16～18)	Fatty acids, C16-18, lead salts	-	91031-62-8	
二塩基性リン酸鉛	Trilead dioxide phosphonate; ; Lead oxide phosphonate (Pb3O2(HPO3))	$Pb_3O_2(HPO_3)$	12141-20-7	0.847
銅、鉄、鉛マット（かわ）の残渣の非水溶性亜硫酸化合物	Residues, copper-iron-lead-nickel matte, sulfuric acid-insol.	-	102110-49-6	-
その他の鉛化合物	Other lead compounds	-	JAMP-SN0023	-

(3) Principal uses for substances

Part	Purpose
Electrodes for lead accumulators, optical glasses (lens, filters), structural parts (steel, aluminum, copper), vinyl chloride sheaths for wires and cords, paints, inks, X-ray shield plastic plates, CRTs for monitors, electro soldering, die bonding, mechanical soldering, vulcanized rubber molded items, manganese cells, alkaline button cells	Battery materials, free-machining alloy materials, optical materials, plastic stabilizers, pigments, radiation shielding materials, electric solder materials, mechanical solder materials, rubber vulcanizing agents

Table 2-I-4 Mercury and its compounds

(1) Details

No. I-4	Substance Group: Mercury and its compounds			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Packaging materials	-Less than 100 ppm in homogeneous material	*1
		・Use in appliances used fully or partially in	-Intentional inclusion	*2

		water	prohibited -Not detected	
	Immediate Exclusions from RoHS Directive: 6 months prior to expiration	・Electric and electronic equipment subject to RoHS Directive (2011/65/EU)	-1000 ppm or less in homogeneous material	*3
	Immediate	・Battery	-5ppm or less by battery weight	*4
Exemption	Please refer to the EU RoHS ANNEX III and ANNEX IV.			
Note	*1 The total concentration of four heavy metals (cadmium, hexavalent chromium, lead and mercury) in packaging materials must be considered. In the case of printing inks used on packaging, the total concentration of these four heavy metals included in the solid ingredients of the inks must be considered. EU Directive on packaging materials and Regulations on Heavy Metals in Packaging (U.S.A.). *2 Annex XVII to REACH (restriction), ChemVerbotsV (Germany) *3 RoHS Directive (2011/65/EU) and Annex II of (EU) 2015/863 *4 EU Battery Regulation ((EU)2023/1542)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
水銀	Mercury	Hg	7439-97-6	1.000
塩化第二水銀	Mercury dichloride	$HgCl_2$	7487-94-7	0.739
酸化水銀(II)	Mercury (II) oxide	HgO	21908-53-2	0.926
硫酸第二水銀	Mercury sulphate	$HgSO_4$	7783-35-9	0.676
硝酸水銀(II)	Mercury (II) nitrate	$Hg(NO_3)_2$	10045-94-0	0.618
硫化第二水銀	Mercury (II) sulfide	HgS	1344-48-5	0.862
酸化水銀(I)(黒色)	Mercury(I) oxide (black)	Hg_2O	15829-53-5	0.962
ジメチル水銀	Dimethyl mercury	$(CH_3)_2Hg$	593-74-8	0.870
塩化第一水銀	Mercury chloride	Hg_2Cl_2	10112-91-1	0.850
その他の水銀化合物	Other mercury compounds	-	JAMP-SN0024	-

(3) Principal uses for substances

Part	Purpose
Lamps (mercury lamps, fluorescent tubes, back lights for liquid crystal displays), electrodes, batteries, electric contacts, plastics, paints, printing inks	Fluorescent materials, electrical contact materials, mercury batteries, color pigments

Table 2-I-5 Trisubstituted organotin compounds (including bis (tributyltin) oxide (TBTO), tributyltin compounds (TBTs, excluding TBTO) and triphenyltin compounds (TPTs))

(1) Details

No. I-5	Substance Group: Trisubstituted organotin compounds (including bis (tributyltin) oxide (TBTO), tributyltin compounds (TBTs, excluding TBTO) and triphenyltin compounds (TPTs))			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	[TBTO (CAS No.: 56-35-9) only] ・All applications	-Intentional inclusion prohibited	*1
		[Trisubstituted organotin compounds except TBTO (CAS No.: 56-35-9)] ・All applications	- Less than 1000 ppm (tin conversion) in article or part thereof	*2
Note	*1 Class I Specified Chemical Substances (TBTO: Cas No.56-35-9) designated by Japanese Chemical Substances Control Act. *2 Annex XVII to REACH (restriction), ChemVerbotsV (Germany)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ビス(トリブチルスズ)=オキシド (TBTO)	Bis(tri-n-butyltin) oxide	$O(Sn(C_4H_9)_3)_2$	56-35-9	0.398
トリフェニルスズ=N,N-ジメチルジチオカルバマート	Triphenyltin dimethyldithiocarbamate	$(C_6H_5)_3Sn(CH_3)_2NCS_2$	1803-12-9	0.252
トリフェニルスズ=フルオリド	Triphenyltin fluoride	$(C_6H_5)_3SnF$	379-52-2	0.322
酢酸トリフェニルスズ	Triphenyltin acetate	$(C_6H_5)_3SnOCOCH_3$	900-95-8	0.290
トリフェニルスズ=クロリド	Triphenyltin chloride	$(C_6H_5)_3SnCl$	639-58-7	0.308
トリフェニルスズ=ヒドロキシド	Triphenyltin hydroxide	$(C_6H_5)_3SnOH$	76-87-9	0.323
トリフェニル［（２，２，４，４－テトラメチル－１－オキソペンチル）オキシ］スタンナン	Stannane, triphenyl[(2,2,4,4-tetramethyl-oxopentyl)oxy]-	$C_{27}H_{32}O_2Sn$	18380-71-7	0.234
［［２，３－ジメチル－２－（１－メチルエチル）－１－オキソブチル］オキシ］トリフェニルスタンナン	Stannane, [[2,3-dimethyl-2-(1-methylethyl)-oxobutyl]oxy]triphenyl-	$C_{27}H_{32}O_2Sn$	18380-72-8	0.234
［（１－オキソデシル）オキシ］トリフェニルスタンナン	Stannane, [(1-oxodecyl)oxy]triphenyl-	$C_{28}H_{34}O_2Sn$	47672-31-1	0.228
［（１－オキソウンデシル）オキシ］トリフェニルスタンナン	Stannane, [(1-oxoundecyl)oxy]triphenyl-	$C_{29}H_{36}O_2Sn$	94850-90-5	0.222
トリフェ ニルスズ=クロロアセタート	Triphenyltin chloroacetate	$(C_6H_5)_3SnOCOCH_2Cl$	7094-94-2	0.268
トリブチルスズ=メタクリラート	Tributyltin methacrylate	$(C_4H_9)_3SnC_4H_5O_2$	2155-70-6	0.317
ビス(トリブチルスズ)=フマラート	Bis(tributyltin) fumarate	$C_2H_2(COO)_2((C_4H_9)_3Sn)_2$	6454-35-9	0.342
トリブチルスズ=フルオリド	Tributyltin fluoride	$(C_4H_9)_3SnF$	1983-10-4	0.384
トリブチルスズ=2,3-ジブロモスクシナート	Bis(tributyltin) meso-2,3-dibromosuccinate	$((C_4H_9)_3Sn)_2C_2H_2(Br)_2(COO)_2$	31732-71-5	0.278
トリブチルスズ=アセタート	Tributyltin acetate	$(C_4H_9)_3SnOCOCH_3$	56-36-0	0.340

トリブチルスズ=ラウラート	Tributyltin laurate	$(C_4H_9)_3SnC_{12}H_{23}O_2$	3090-36-6	0.243
ビス(トリブチルスズ)=フタラート	Bis(tributyltin) phthalate	$(C_6H_4)(COO)_2((C_4H_9)_3Sn)_2$	4782-29-0	0.319
アルキル=アクリラート・メチル=メタクリラート・トリブチルスズ=メタクリラート、共重合物(アルキル=アクリラートのアルキル基の炭素数が8のものに限る)	Copolymer of alkyl acrylate, methyl-methacrylate and tributyltin-methacrylate(alkyl; C=8)	-	67772-01-4	
トリブチルスズ=スルファマート	Tributyltin sulfamate	$(C_4H_9)_3SnSO_3NH_2$	6517-25-5	0.307
ビス(トリブチルスズ)=マレアート	Bis(tributyltin) maleate	$C_2H_2(COO)_2((C_4H_9)_3Sn)_2$	14275-57-1	0.342
トリブチルスズ=クロリド	Tributyltin chloride	$(C_4H_9)_3SnCl$	1461-22-9 7342-38-3	0.365
トリブチルスズ=シクロペンタンカルボキシラート及びこの類縁化合物の混合物	Mixture of tributyltin -cyclopentanecarboxylate and its –analogs (Tributyltin naphthenate)	$(C_4H_9)_3SnCO_3C_5H_9$	85409-17-2	-
トFリブタン-1-イルスタンニル=(1R,4aR,4bR,10aR)-7-イソプロピル-1,4a-ジメチル-1,2,3,4,4a,4b,5,6,10,10a-デカヒドロフェナントレン-1-カルボキシラート	Tributan-1-ylstannyl (1R,4aR,4bR,10aR)-7-isopropyl-1,4a-dimethyl-1,2,3,4,4a,4b,5,6,10,10a-decahydrophenanthrene-1-carboxylate	$C_{32}H_{56}O_2Sn$	26239-64-5	0.201
その他の三置換有機スズ化合物	Other Trisubstituted organotin compounds	-	JAMP-SN0068	-

(3) Principal uses for substances

Part	Purpose
Paints, printing inks	Paints, antifouling (sterilization) pigments, preservatives, stabilizers, antioxidants

Table 2-I-6 Dibutyltin compounds

(1) Details

No. I-6	Substance Group: Dibutyltin compounds			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	- Less than 1000 ppm (tin conversion) in mixture, article or part thereof	*1
Note	*1 Annex XVII to REACH (restriction)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ジブチルスズオキシド	Dibutyltin oxide	$C_8H_{18}OSn$	818-08-6	0.477
ジブチルスズ二酢酸	Dibutyltin diacetate	$C_{12}H_{24}O_4Sn$	1067-33-0	0.338

ジブチル［(1-オキソドデシル)オキシ］スズ；ジブチルスズジラウレート	Dibutyltin dilaurate	$C_{32}H_{64}O_4Sn$	77-58-7	0.188
マレイン酸ジ-n-ブチルスズ	Dibutyltin maleate	$C_{12}H_{20}O_4Sn$	78-04-6	0.342
ジブチルスズジクロライド（DBTC）	Dibutyltin dichloride (DBTC)	$C_8H_{18}Cl_2Sn$	683-18-1	0.391
その他のジブチルスズ化合物	Other dibutyltin compounds	-	JAMP-SN0072	-

(3) Principal uses for substances

Part	Purpose
Stabilizer for PVC, curing catalyst for silicone resin and urethane resin	Stabilizer for PVC, curing catalyst for silicone resin and urethane resin

Table 2-I-7 Dioctyltin compounds (DOT)

(1) Details

No. I-7	Substance Group: Dioctyltin compounds (DOT)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Textile and leather articles intended to come into contact with the skin ・Childcare articles ・Two-component room temperature vulcanization molding kits (RTV-2 sealant molding kits)	- Less than 1000 ppm (tin conversion) in article or part thereof	*1
Note	*1　Annex XVII to REACH (restriction)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ジオクチルスズオキシド	Dioctyltin oxide	$C_{16}H_{34}OSn$	870-08-6	0.326
ジオクチルビス［(1-オキソドデシル)オキシ］スズ	Dioctyltin dilaurate	$C_{40}H_{80}O_4Sn$	3648-18-8	0.160
ジオクチルスズビス(2－エチルヘキシルチオグリコラート)	'Dioctyltin bis(2-ethylhexyl thioglycolate)	$C_{36}H_{72}O_4S_2Sn$	15571-58-1	0.158
その他のジオクチルスズ化合物	Other Dioctyltin compounds	-	-	-

(3) Principal uses for substances

Part	Purpose
Stabilizer for PVC, curing catalyst for silicone resin and urethane resin	Stabilizer for PVC, curing catalyst for silicone resin and urethane resin

Table 2-I-8 Nickel and its compounds.

(1) Details

No. I-8	Substance Group: Nickel and its compounds			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	Articles that come into direct and prolonged contact with the skin.	-The rate of nickel release from the article is less than 0.5 μg/cm² per week.	*1

Note	*1 Annex XVII to REACH (restriction) The use of articles is prohibited if the rate of nickel released from those articles equals or exceeds 0.5 μg/cm² per week. (In cases where the above-mentioned articles have non-nickel coatings on them, the use of the articles will still be prohibited if the rate of nickel released from them under normal usage conditions for at least two years exceeds 0.5 μg/cm²per week.)

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
一酸化ニッケル	Nickel oxide	NiO	1313-99-1	0.786
炭酸ニッケル	Nickel carbonate	$NiCO_3$	3333-67-3	0.494
硫酸ニッケル	Nickel Sulphate	$NiSO_4$	7786-81-4	0.379
ニッケル	Nickel	Ni	7440-02-0	1.000
塩化第一ニッケル	Nickel (II) chloride	$NiCl_2$	7718-54-9	0.453
その他のニッケル化合物	Other nickel compounds	-	JAMP-SN0027	-

(3) Principal uses for substances

Part	Purpose
Headphones, accessories	Stainless steel, plating

Table 2-I-9 Polybrominated biphenyl (PBBs)

(1) Details

No. I-9	Substance Group: Polybrominated biphenyl (PBBs)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Electric and electronic equipment subject to RoHS Directive (2011/65/EU)	-1000 ppm or less in homogeneous material	*1
		・Articles that come into direct and prolonged contact with the skin.	-Intentional inclusion prohibited	*2
Note	*1 EU RoHS Directive (2011/65/EU) and Annex II of (EU) 2015/863; monitoring chemical substances by Japanese Chemical Substances Control Act. *2 EU REACH Regulation (EC) No 1907/2006 Annex XVII			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ポリ臭化ビフェニル類	Polybrominated Biphenyls		59536-65-1 JAMP-SN0065	-
4,4'-ジブロモビフェニル	4,4'-Dibromobiphenyl	$C_6H_4BrC_6H_4Br$	92-86-4	-
2-ブロモビフェニル	2-Bromobiphenyl	$C_6H_5C_6H_4Br$	2052-07-5	-
3-ブロモビフェニル	3-Bromobiphenyl	$C_6H_5C_6H_4Br$	2113-57-7	-
4-ブロモビフェニル	4-Bromobiphenyl	$C_6H_5C_6H_4Br$	92-66-0	-
トリブロモビフェニル	1,1'-Biphenyl, 2,2',5-tribromo-	$C_{12}H_7Br_3$	59080-34-1	-
テトラブロモビフェニル	Tetrabromobiphenyl	$C_{12}H_6Br_4$	40088-45-7	-
ペンタブロモビフェニル	Pentabromobiphenyl	$C_{12}H_5Br_5$	56307-79-0	
2,2',4,4',5,5'-ヘキサブロモビフェニル	2,2',4,4',5,5'-Hexabromobiphenyl Hexabromobiphenyl	$C_6H_2Br_3C_6H_2Br_3$	59080-40-9	-

ヘキサブロモ-1,1-ビフェニル	Hexabromo-1,1-biphenyl	$C_6H_2Br_3C_6H_2Br_3$	36355-01-8	-
ファイアーマスターFF-1	Firemaster FF-1	$C_{12}H_4Br_6$	67774-32-7	-
ヘプタブロモビフェニル	Heptabromobiphenyl	$C_6Br_5C_6H_3Br_2$	35194-78-6	-
オクタブロモビフェニル	Octabromobiphenyl	$C_6HBr_4C_6HBr_4$	61288-13-9	-
ノナブロモ-1,1-ビフェニル	Nonabiphenyl	$C_{12}HBr_9$	27753-52-2	-
デカブロモビフェニル	Decabromobiphenyl	$C_6BrC_6Br_5$	13654-09-6	-
[1,1'-ビフェニル]-ar,ar'-ジオール, テトラブロモ-, (クロロメチル)オキシラン及び4,4'-(1-メチルエチリデン)ビス[フェノール]とのポリマー	[1,1'-Biphenyl]-ar,ar'-diol, tetrabromo-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]	(C15H16O2.C12H6Br4O2.C3H5ClO)x	68758-75-8	-

(3) Principal uses for substances

Part	Purpose
Flame-retardant plastic enclosure molded items	Plastic flame retardants

Table 2-I-10 Polybrominated diphenyl ethers (PBDEs)

(1) Details

No. I-10	Substance Group: Polybrominated diphenyl ethers (PBDEs)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Electric and electronic equipment subject to RoHS Directive (2011/65/EU)	-1000 ppm or less in homogeneous material	*1 *3
		[PBDEs excluding DecaBDE (CAS No.: 1163-19-5)] ・All applications other than the items subject to RoHS Directive (2011/65/EU)	・Less than 10 ppm as a total amount in article	*2
		[DecaBDE (CAS No.: 1163-19-5) only] ・All applications	-Intentional inclusion prohibited	*3 *4
Exemption	*2 EU POPs Regulation (EU)2019/1021 Annex I If a "mixtures or articles containing recycled materials" or a "mixtures or articles manufactured from recycled materials" contains tetra-BDE, penta-BDE, hexa-BDE, hepta-BDE, or deca-BDE, the following concentrations shall apply: 1) As of the issuance of these regulations (November 17, 2025 or later): Less than 500 ppm; 2) From December 30, 2025 onwards: Total less than 350 ppm; 3) From December 30, 2027 onwards: Total less than 200 ppm.			
	*4 US TSCA PBT Rules «FDA-registered medical devices» The following Official Journal is applicable. TSCA: CHAPTER 53—TOXIC SUBSTANCES CONTROL SUBCHAPTER I—CONTROL OF TOXIC SUBSTANCES Sec. 2602. Definitions. (2)(vi) (https://www.govinfo.gov/content/pkg/USCODE-2018-title15/pdf/USCODE-2018-title15-chap53.pdf) (Note) FDA-registered medical devices are not subject to TSCA but Olympus may require suppliers to report the contents of these substances so that Olympus can confirm the exemptions are applied. «Exceptions to US TSCA PBT Rules » ・ Regulated substances, products or articles containing regulated substances, which have already been sold to end-consumers (such as secondhand articles and donations to charity) ・ Disposal of regulated substances, products or articles containing regulated substances ・ Production, treatment, distribution in commerce and use of regulated substances, products or articles containing regulated substances for research and development purposes ・ Processing and distribution in commerce for recycling of plastic containing DecaBDE from			

	products or articles (Note) Items other than the “FDA-registered medical devices” described above
Note	*1 RoHS Directive (2011/65/EU) and Annex II of (EU) 2015/863 *2 EU POPs regulation (EU)2019/1021 Annex I *3 Class I Specified Chemical Substances (CAS No. : 1163-19-5) designated by Japanese Chemical Substances Control Act. *4 US TSCA PBT Rules

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ポリ臭化ジフェニルエーテル類	Polybrominated diphenyl ethers	$C_{12}H_XBr_{(10-X)}O$	JAMP-SN0066	-
ブロモジフェニルエーテル	Bromodiphenyl ether	$Br(C_6H_4)O(C_6H_5)$	101-55-3	-
ジブロモジフェニルエーテル	Dibromodiphenyl ethers	$C_6H_4BrOC_6H_4Br$	2050-47-7	-
トリブロモジフェニルエーテル	Tribromodiphenyl ether	$C_{12}H_7Br_3O$	49690-94-0	-
テトラブロモジフェニルエーテル	Tetrabromobiphenyl ethers	$C_{12}H_6Br_4O$	40088-47-9	-
ペンタブロモジフェニルエーテル（注:市販のPeBDPDは、種々の臭素化ジフェニルオキシドを含む複雑な反応混合物である)	Pentabromodiphenyl ether (note:Commercially available PeBDPD is a complex reaction mixture containing a variety of brominated diphenyloxides)	-	32534-81-9 (CAS No. used for commercial grades of PeBDPD)	-
ヘキサブロモジフェニルエーテル	Hexabromodiphenyl ether	$C_{12}H_4Br_6O$	36483-60-0	-
ヘプタブロモジフェニルエーテル	Heptabromodiphenyl ether	$C_{12}H_3Br_7O$	68928-80-3	-
オクタブロモジフェニルエーテル	Octabromobiphenyl ether	$C_{12}H_2Br_8O$	32536-52-0	-
ノナブロモジフェニルエーテル	Nonabromodiphenyl ether	$C_{12}HBr_9O$	63936-56-1	-
デカブロモジフェニルエーテル (DecaBDE)	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	$Br_5C_6OC_6Br_5$	1163-19-5	-

(3) Principal uses for substances

Part	Purpose
Flame-retardant plastic enclosure molded items	Plastic flame retardants

Table 2-I-11 Polychlorinated biphenyl (PCBs)

(1) Details

No. I-11	Substance Group: Polychlorinated biphenyl (PCBs)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Intentional inclusion prohibited	*1
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act., TSCA(USA)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ポリクロロビフェニル	Polychlorobiphenyl	Unspecified	1336-36-3	-
アロクロール(Aroclor)	Aroclor	$(C_6\text{-}C_6)HxCly$	12767-79-2	-
クロロジフェニル(アロクロール 1260)	Aroclor 1260	-	11096-82-5	-
クロロビフェニル	Chlorobiphenyl	$C_{12}H_9Cl$	27323-18-8	-
アロクロール 1254	Aroclor 1254	Unspecified	11097-69-1	-
モノメチル -テトラクロロ-ジフェニルメタン(Ugilec 141)	Monomethyl-tetrachloro-diphenyl methane (Ugilec 141)	$C_{14}H_{10}Cl_4$	76253-60-6	-
モノメチル -ジクロロ -ジフェニルメタン (Ugilec121, Ugilec21)	Monomethyl-dichloro-diphenyl methane (Ugilec 121, Ugilec 21)	-	81161-70-8	-
モノメチル -ジブロモ -ジフェニルメタン (DBBT)	Monomethyl-dibromo-diphenyl methane (DBBT)	-	99688-47-8	-

(3) Principal uses for substances

Part	Purpose
Insulating oil for transformers and capacitors	Electrical insulation medium, solvents

Table 2-I-12 Substance Group: Polychlorinated Terphenyls (PCTs)

(1) Details

No.I-12	Substance Group: Polychlorinated Terphenyls (PCTs)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Less than 50 ppm in mixture or article	*1
Note	*1 Annex XVII to REACH (restriction)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ポリ塩化ターフェニル;PCTs (全ての異性体および同族体)	Polychlorinated terphenyls (PCTs; all isomers and congeners)	Unspecified	61788-33-8	-
テルフェニル類	Terphenyls	$C_6H_4(C_6H_5)_2$	26140-60-3	-

(3) Principal uses for substances

Part	Purpose
Insulating oil for transformers and capacitors	Electrical insulation medium, solvents

Table 2-I-13 Polychlorinated naphthalene (number of chlorine: 2 or more)

(1) Details

No. I-13	Substance Group: Polychlorinated naphthalene (number of chlorine: 2 or more)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Intentional inclusion prohibited	*1
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act.			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ポリ塩化ナフタレン(塩素数が2以上)	Polychlorinated Naphthalenes(Cl≥2)	Unspecified	70776-03-3	-
2塩化ナフタレン	Dichloronaphtalene	$C_{10}H_6Cl_2$	28699-88-9	-
3塩化ナフタレン	Trichloronaphtalene	$C_{10}H_5Cl_3$	1321-65-9	-
4塩化ナフタレン	Tetrachloronaphtalene	$C_{10}H_4Cl_4$	1335-88-2	-
5塩化ナフタレン	Pentachloronaphtalene	$C_{10}H_3Cl_5$	1321-64-8	-
その他のポリ塩化ナフタレン(塩素数が2以上)	Other polychlorinated Naphthalenes (Cl≥2)	-	-	-

(3) Principal uses for substances

Part	Purpose
Flexible rubber, elastomer belts, rolls, packing, sealing materials, insulating oil for capacitors	Plastic stabilizers (electrical characteristics, flame-proofing, water-proofing, biocidal characteristics), electrical insulation medium

Table 2-I-14 Short-chained chlorinated paraffin (having the chain length of 10 - 13)

(1) Details

No. I-14	Substance Group: Short-chained chlorinated paraffin (having the chain length of 10 - 13)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Intentional inclusion prohibited	*1
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act., EU POPs regulation			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
塩素化パラフィン(短鎖)(C10-13)	Alkanes,C10-13,chloro(Short Chain Chlorinated Paraffins)	Unspecified	85535-84-8	-
クロロアルカン C10-12	Alkanes, C10-12, chloro	Unspecified	104948-36-9	-
1,1,1,3,5,7,9,11,11-ノナクロロウンデカン	Undecane, 1,1,1,3,5,7,9,11,11-nonachloro-	C11H15Cl9	18993-26-5	-
ヘプタクロロウンデカン	Undecane, heptachloro-	-	219697-10-6	-
ノナクロロウンデカン	Undecane, nonachloro-	-	219697-11-7	-
1,2,10,11,? ,? ,? ,?-オクタク	Undecane, 1,2,10,11,?,?,?,?-	-	221174-07-8	-

ロロウンデカン 塩素化パラフィン（C11、Cl7-12）	octachloro-			
デカクロロウンデカン	Undecane, decachloro-	-	276673-33-7	-
オクタクロロウンデカン	Undecane, octachloro-	C11H16Cl8	36312-81-9	-
クロロワックス	Chlorowax	-	51990-12-6	-
1,1,1,3,6,7,10,11-オクタクロロウンデカン	Undecane, 1,1,1,3,6,7,10,11-octachloro-	-	601523-20-0	-
1,1,1,3,9,11,11,11-オクタクロロウンデカン	Undecane, 1,1,1,3,9,11,11,11-octachloro-	-	601523-25-5	-
クロロアルカン	Alkanes, chloro; chloroparaffins	Unspecified	61788-76-9	-
1,1,1,2-テトラクロロ-ウンデカン	Undecane, 1,1,1,2-tetrachloro-	C11H20Cl4	63981-28-2	-
クロロアルカン C12-24	Alkene, C12-24-, Chloro-	Unspecified	68527-02-6	-
クロロパラフィン（C6-18）（組成不定）	Chlorinated n-paraffins (C6-18)	Unspecified	68920-70-7	-
塩素化マイクロクリスタリン炭化水素ワックス(石油系)	Hydrocarbon waxes (petroleum), microcryst., chlorinated	Unspecified	68938-43-2	-
クロロアルカン（炭化水素化合物）（C12-13）	Alkanes, C12-13, chloro	Unspecified	71011-12-6	-
クロロアルカン（塩化炭化水素）（C10-21）	Alkanes, C10-21, chloro	Unspecified	84082-38-2	-
クロロアルカン類, C10-32	Alkanes, C10-32, chloro	Unspecified	84776-06-7	-
クロロパラフィン油	Paraffin oils, chloro-	Unspecified	85422-92-0	-
クロロパラフィン（C12-14）	Alkane, C12-14-, Chloro-	Unspecified	85536-22-7	-
クロロパラフィン（C10-14）	Alkane, C10-14-, Chloro-	Unspecified	85681-73-8	-
クロロアルカン(C12-16)	Alkanes, C12-16, chloro	Unspecified	866758-65-8	-
塩素化パラフィン（石油）、標準 C>10	Paraffins (petroleum), normal C>10, chloro	Unspecified	97553-43-0	-
クロロアルカン類, C10-26	Alkanes, C10-26, chloro	Unspecified	97659-46-6	-
塩素化パラフィン（SCCP(短鎖)または MCCP(中鎖)か分からないもの）	Chlorinated Paraffins may or may not be SCCP or MCCP	-	JAMP-SN1020	-

(3) Principal uses for substances

Part	Purpose
Flexible polyvinyl chloride molded items	Polyvinyl chloride plasticizers

Table 2-I-15 Polyvinyl chloride (PVC)

(1) Details

No. I-15	Substance Group: Polyvinyl chloride (PVC)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Packaging materials	-Intentional inclusion prohibited	—
Exemption	Other applications are permitted.			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
塩化ビニル、クロロエチレン	Chloroethene	-	75-01-4	-
ポリ塩化ビニル(PVC)およびその混合物	Polyvinyl chloride (PVC) and its mixture	$(CH_2CHCl)_n$	9002-86-2	-
ポリ塩化ビニル酢酸ビニル共重合体	Vinyl chloride/vinyl acetate copolymer	-	9003-22-9	-

(3) Principal uses for substances

Part	Purpose
Coated wiring cords, electric insulation molded items, chemical-resistant molded parts, plumbing components, transparent covers	Electrical insulation medium, chemical-resistance, transparency

Table 2-I-16 Hexabromocyclododecane (HBCDD)

(1) Details

No. I-16	Substance Group: Hexabromocyclododecane (HBCDD)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Intentional inclusion prohibited	*1
		・Substances ・Mixtures	-Intentional inclusion prohibited	*2
Exemption	*2 Applications that are submitted to, and approved by, the European Chemicals Agency will be permitted.			
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act., EU POPs regulation *2 Annex XIV to REACH (authorizations)			

(2) Regulated substances (Japanese Chemical Substances Control Act.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
1,2,5,6,9,10-ヘキサブロモシクロドデカン	1,2,5,6,9,10-hexabromocyclododecane	$C_{12}H_{18}Br_6$	3194-55-6
ヘキサブロモシクロドデカン (HBCDD)	Hexabromocyclododecane (HBCDD)	$C_{12}H_{18}Br_6$	25637-99-4
rel-(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン; アルファ-ヘキサブロモシクロドデカン	rel-(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane; Alpha-hexabromocyclododecane	$C_{12}H_{18}Br_6$	134237-50-6
rel-(1R,2S,5R,6R,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン; ベータ-ヘキサブロモシクロドデカン	rel-(1R,2S,5R,6R,9R,10S)-1,2,5,6,9,10-hexabromocyclododecane Beta-hexabromocyclododecane	$C_{12}H_{18}Br_6$	134237-51-7
rel-(1R,2R,5R,6S,9S,10R) -1,2,5,6,9,10-ヘキサブロモシクロドデカン; ガンマ-ヘキサブロモシクロドデカン	rel-(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-hexabromocyclododecane Gamma-hexabromocyclododecane	$C_{12}H_{18}Br_6$	134237-52-8

rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	4736-49-6
rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	65701-47-5
(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	138257-17-7
(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	138257-18-8
(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	138257-19-9
(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	169102-57-2
(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	678970-15-5
(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	678970-16-6
(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-ヘキサブロモシクロドデカン	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	$C_{12}H_{18}Br_6$	678970-17-7
Regulated substances (REACH, EU POPs regulation)			
Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
1,2,5,6,9,10-ヘキサブロモシクロドデカン	1,2,5,6,9,10-hexabromocyclododecane	$C_{12}H_{18}Br_6$	3194-55-6
ヘキサブロモシクロドデカン (HBCDD) アルファ-ヘキサブロモシクロドデカン ベータ-ヘキサブロモシクロドデカン ガンマ-ヘキサブロモシクロドデカン	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	$C_{12}H_{18}Br_6$	25637-99-4 134237-50-6, 134237-51-7, 134237-52-8

(3) Principal uses for substances

Part	Purpose
Expanded polystyrene molded parts, adhesive agents, fiber coating	Fire-retardant for resins and fibers

Table 2-I-17 Pentachlorothiophenol (PCTP)

(1) Details

No. I-17	Substance Group: Pentachlorothiophenol (PCTP)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	- 1wt% (10,000ppm) or less in the article.	*1
Exemption	«FDA-registered medical devices» The following Official Journal is applicable. TSCA: CHAPTER 53—TOXIC SUBSTANCES CONTROL SUBCHAPTER I—CONTROL OF TOXIC SUBSTANCES Sec. 2602. Definitions. (2)(vi) (https://www.govinfo.gov/content/pkg/USCODE-2018-title15/pdf/USCODE-2018-title15-chap53.pdf) (Note) FDA-registered medical devices are not subject to TSCA but Olympus may require suppliers to			

	report the contents of these substances so that Olympus can confirm the exemptions are applied.
	«Exceptions to US TSCA PBT Rules » ・ Regulated substances, products or articles containing regulated substances, which have been already sold to end-consumers (such as secondhand articles and donations to charity) ・ Disposal of regulated substances, products or articles containing regulated substances ・ Production, treatment, distribution in commerce and use of regulated substances, products or articles containing regulated substances for research and development purposes (Note) Items other than the "FDA-registered medical devices" described above
Note	*1 US TSCA PBT Rules

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
ペンタクロロチオフェノール (PCTP)	Pentachlorothiophenol (PCTP)	C6HCl5S	133-49-3

(3) Principal uses for substances

Part	Purpose
Rubber	Additive to improve stiffness modulus

Table 2-I-18 Hexachlorobutadiene (HCBD)

(1) Details

No. I-18	Substance Group: Hexachlorobutadiene (HCBD)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Intentional inclusion prohibited	*1
Exemption	«FDA-registered medical devices» The following Official Journal is applicable. TSCA: CHAPTER 53—TOXIC SUBSTANCES CONTROL SUBCHAPTER I—CONTROL OF TOXIC SUBSTANCES Sec. 2602. Definitions. (2)(vi) (https://www.govinfo.gov/content/pkg/USCODE-2018-title15/pdf/USCODE-2018-title15-chap53.pdf) (Note) FDA-registered medical devices are not subject to TSCA but Olympus may require suppliers to report the contents of these substances so that Olympus can confirm the exemptions are applied.			
	«Exceptions to US TSCA PBT Rules » ・ Regulated substances, products or articles containing regulated substances, which have been already sold to end-consumers (such as secondhand articles and donations to charity) ・ Disposal of regulated substances, products or articles containing regulated substances ・ Production, treatment, distribution in commerce and use of regulated substances, products or articles containing regulated substances for research and development purposes (Note) Only the exceptions related to Olympus Group products are listed above. (Note) Items other than the "FDA-registered medical devices" described above			
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act., US TSCA PBT Rules			

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
ヘキサクロロブタジエン (HCBD)	Hexachlorobutadiene (HCBD)	C4Cl6	87-68-3

(3) Principal uses for substances

Part	Purpose
Rubber compounds	Chemical intermediates

Table 2-I-19 Hexachlorobenzene (HCB)

No. I-19	Substance Group: Hexachlorobenzene (HCB)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications (substances, mixtures and articles)	equal to or below 10ppm	*1
Note	*1 : Commission Delegated Regulation (EU) 2022/2291 amending EU PoPs			

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
Hexachlorobenzene (HCB)	Hexachlorobenzene (HCB)	C6Cl6	118-74-1

(3) Principal uses for substances

Part	Purpose
Pesticides, chlorinated solvents, inks, coatings, paints and toners, wood application, textile application and plastics.	Fungicides, herbicides, smelting accelerators, plasticizers, flame retardants, chemical intermediates

Table 2-I-20 Dechlorane Plus

No. I-20	Substance Group: Dechlorane Plus			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Substances, compounds	・Not contained	*1
		・Articles	・Import ban on government-designated products	*1
		・All uses	・Not contained	*2
		・All uses	・Not intentionally included	*3,*4,*5
		・All uses	・1000mg/kg (0,1 wt%) or less	*6
Level 2	Oct. 15, 2027	・All uses	・1mg/kg (0,0001 wt%) or less	*6
Exemption	*1 : Chemical Substances Control Law: Class 1 Specified Chemical Substances - Substances and compounds used in medical devices and in the manufacture of medical devices are not subject to regulation - If a substance or compound contains a by-product, it is not treated as a Class 1 Specified Chemical Substance if it has been reported to BAT https://www.meti.go.jp/policy/chemical_management/kasinhou/about/class1specified_history.html *2 : Environmental Protection and Management Act 1999 *3: Australia IChEMR - Medical devices and components of medical devices (chemicals, articles (including spare parts)) are excluded. *4: New Zealand Hazardous Substances and New Organisms Act 1996 - New uses in medical imaging and radiotherapy equipment and facilities: Until			

	February 25, 2030. - Spare parts for medical devices: Until the end of the product's useful life. *5: Switzerland ORRchem - Products and spare parts that have entered customs in Switzerland, the EU, or EFTA before January 1, 2026. - Medical imaging equipment and parts required for its manufacture: Until February 25, 2030. - Spare parts for repairing medical imaging equipment first placed on the Swiss market by February 25, 2030: Until December 31, 2043. *6: EU POPs Regulation - Medical imaging uses: Until February 26, 2030. - (EU) 2017/745 Spare parts for medical devices and accessories for medical devices that fall within the scope of the warranty: until the end of the product's useful life.
Note	*1 : Chemical Substances Control Law: Class 1 Specified Chemical Substances *2 : Environmental Protection and Management Act 1999 *3 : Australia IChEMR *4 : New Zealand Hazardous Substances and New Organisms Act 1996 *5 : Switzerland ORRchem *6 : EU POPs Regulations

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
デクロランプラス	Dechlorane Plus	C18H12Cl12	13560-89-9
			135821-03-3
			135821-74-8

(3) Principal uses for substances

Part	Purpose
Electrical and electronic equipment, optical products, food packaging, building and construction materials, tapes and adhesives, woven fabrics, textiles, apparel, cosmetics, explosives and fireworks, plastic products, paints and greases	Chlorinated flame retardants

Table 2-I-21 Asbestos

(1) Details

No. I-21	Substance Group: Asbestos			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Intentional inclusion prohibited	*1
Note	*1 Annex XVII to REACH (restriction), Industrial Safety and Health Law (Japan) (Specified Chemical Substances Class II: Applicable only to Amosite, Chrysotile and Crocidolite)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
アクチノライト	Actinolite	Unspecified	77536-66-4	-
アモサイト	Amosite	Unspecified	12172-73-5	-
アンソフィライト	Anthophyllite	Unspecified	77536-67-5	-
クリソタイル	Chrysotile	Unspecified	12001-29-5 132207-32-0	-
クロシドライト	Crocidolite	Unspecified	12001-28-4	-
トレモライト	Tremolite	Unspecified	77536-68-6	-
アスベスト繊維	Asbestos fibers	-	1332-21-4 JAMP-SN0056	-

(3) Principal uses for substances

Part	Purpose
Brake lining pads, electrical insulation parts, seals for chemical installations	Friction material, insulation materials, fillers

Table 2-I-22 Azo dyes and pigments (specific amines formed by degrading azo dyes and pigments)

(1) Details

No. I-22	Substance Group: Azo dyes and pigments (specific amines formed by degrading azo dyes and pigments)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Use of Azo dyes and pigments forming specific amines by degradation of the parts of articles being routinely touched by skin for a long time	-Less than 30 ppm in article	*1
		・Substances and mixtures that contain the following substances: CAS No.101-77-9: 4,4'-Diaminodiphenylmethane CAS No. 101-14-4: 2,2'-dichloro-4,4'-methylenedianiline	-Intentional inclusion prohibited	*2
Exemption	*2 Applications that are submitted to, and approved by, the European Chemicals Agency will be permitted.			
Note	*1 Annex XVII to REACH (restriction), Consumer Goods Ordinance (BedGgstV) (Germany) *2 Annex XIV to REACH (authorizations)			

(2) Regulated substances

Substance			
Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN
4-アミノアゾベンゼン	4-aminoazobenzene	$C_{12}H_{11}N_3$	60-09-3
2-メトキシアニリン; o-アニシジン	2-Methoxyaniline; o-Anisidine	C_7H_9NO	90-04-0
2-ナフチルアミン	2-naphthylamine	$C_{10}H_9N$	91-59-8
3,3'-ジクロロベンジジン	3,3'-dichlorobenzidine	$C_{12}H_{10}Cl_2N_2$	91-94-1
ビフェニル-4-イルアミン; 4-アミノビフェニル	Biphenyl-4-ylamine; 4-aminobiphenyl	$C_{12}H_{11}N$	92-67-1
ベンジジン	Benzidine	$C_{12}H_{12}N_2$	92-87-5

o-トルイジン	o-toluidine	C_7H_9N	95-53-4
o-塩化トルイジン	4-chloro-o-toluidine	C_7H_8ClN	95-69-2
2,4-ジアミノトルエン	4-methyl-m-phenylenediamine(toluene-2,4-diamine)	$C_7H_{10}N_2$	95-80-7
o-アミノアゾトルエン	o-aminoazotoluene	$C_{14}H_{15}N_3$	97-56-3
5-ニトロ-o-トルイジン	5-nitro-o-toluidine	$C_7H_8N_2O_2$	99-55-8
2,2'-ジクロロ-4,4'-メチレンジアニリン	2,2'-dichloro-4,4'-methylenedianiline	$C_{13}H_{12}Cl_2N_2$	101-14-4
4,4'-ジアミノジフェニルメタン	4,4'-diaminodiphenylmethane(MDA);	$C_{13}H_{14}N_2$	101-77-9
4,4'-オキシジアニリン及びその塩	4,4'-oxydianiline and its salts	$C_{12}H_{12}N_2O$	101-80-4
p-クロロアニリン	p-chloroaniline	C_6H_6ClN	106-47-8
3,3'-ジメトキシベンジジン	3,3'-dimethoxybenzidine	$C_{14}H_{16}N_2O_2$	119-90-4
3,3'-ジメチルベンジジン	3,3'-dimethylbenzidine	$C_{14}H_{16}N_2$	119-93-7
6-メトキシ-m-トルイジン	6-methoxy-m-toluidine	$C_8H_{11}NO$	120-71-8
2,4,5-トリメチルアニリン	2,4,5-trimethylaniline	$C_9H_{13}N$	137-17-7
4,4'-ジアミノジフェニルスルフィド	4,4'-thiodianiline	$C_{12}H_{12}N_2S$	139-65-1
2,4-ジアミノアニソール	2,4-diaminoanisole	$C_7H_{10}N_2O$	615-05-4
4,4'-メチレンビス(o-トルイジン)	4,4'-methylenedi-o-toluidine	$C_{15}H_{18}N_2$	838-88-0

(3) Principal uses for substances

Part	Purpose
Fiber products, printing inks	Dyes and pigments

Table 2-I-23 Ozone depleting substances

(1) Details

No. I-23	Substance Group: Ozone depleting substances			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Intentional inclusion prohibited	*1
Note	*1 Montreal Protocol, Section 611 on the Clean Air Act Amendments of 1990 (U.S.A.), (EC)No 2037/2000, (EC)No 1005/2009, Law Concerning the Protection of the Ozone Layer (Japan).			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN
・Annex A　Group I：CFC			
トリクロロフルオロメタン；CFC-11	Trichlorofluoromethane；CFC-11	$CFCl_3$	75-69-4
ジクロロジフルオロメタン；CFC-12	Dichlorodifluoromethane；CFC-12	CF_2Cl_2	75-71-8
トリクロロトリフルオロエタン；1,1,2トリクロロ-1,2,2トリフルオロエタン；CFC-113	Trichlorofluoroethane；1,1,2 Trichloro-1,2,2 trifluoroethane；CFC-113	$C_2F_3Cl_3$	354-58-5 76-13-1
ジクロロテトラフルオロエタン；CFC-114	Dichlorotetrafluoroethane；CFC-114	$C_2F_4Cl_2$	1320-37-2 76-14-2
モノクロロペンタフルオロエタン；CFC-115	Monochloropentafluoroethane；CFC-115	C_2F_5Cl	76-15-3
・Annex A　Group II：Halons			
ブロモクロロジフルオロメタン；ハロン-1211	Bromochlorodifluoromethane；Halon 1211	CF_2BrCl	353-59-3
ブロモトリフルオロメタン；ハロン-1301	Bromotrifluoromethane；Halon 1301	CF_3Br	75-63-8
ジブロモテトラフルオロエタン；ハロ	Dibromotetrafluoroethane　；Halon 2402	$C_2F_4Br_2$	124-73-2

ン-2402			
・Annex B　Group I:Other CFCs			
塩化フッ化メタン；CFC-13	Chlorotrifluoromethane；CFC-13	CF_3Cl	75-72-9
ペンタクロロフルオロエタン；CFC-111	Pentachlorofluoroethane；CFC-111	C_2FCl_5	354-56-3
テトラクロロジフルオロエタン；CFC-112	Tetrachlorodifluoroethane；CFC-112	$C_2F_2Cl_4$	28605-74-5 76-12-0
1.1.1.2-テトラクロロ-2.2-ジフオロエタン；CFC-112a	1,1,1,2-Tetrachloro-2,2- difluoroethane ；CFC-112a	$C_2F_2Cl_4$	76-11-9
ヘプタクロロフルオロプロパン；CFC-211	Heptachlorofluoropropane；CFC-211	C_3FCl_7	135401-87-5 422-78-6
1.1.1.2.3.3.3-ヘプタクロロ-2-フルオロプロパン；CFC-211ba	1,1,1,2,3,3,3-Heptachloro-2-fluoropropane；CFC-211ba	C_3Cl_7F	422-81-1
ヘキサクロロジフルオロプロパン；CFC-212	Hexachlorodifluoropropane； 1,1,1,3,3,3-Hexachlor-2,2-difluoropropane； CFC-212	$C_3F_2Cl_6$	3182-26-1
ペンタクロロトリフルオロプロパン；CFC-213	Pentachlorotrifluoropropane；CFC-213	$C_3F_3Cl_5$	134237-31-3 2354-06-5
テトラクロロテトラフルオロプロパン；CFC-214	Tetrachlorotetrafluoropropane；CFC-214	$C_3F_4Cl_4$	29255-31-0
1,1,1,3-テトラクロロテトラフルオロプロパン	1,1,1,3-Tetrachlorotetrafluoropropane	$C_3Cl_4F_4$	2268-46-4
トリクロロペンタフルオロプロパン；CFC-215	Trichloropentafluoropropane； 1,2,2-trichloropentafluoropropane; CFC-215	$C_3F_5Cl_3$	1599-41-3
1,2,3-トリクロロペンタフルオロプロパン；CFC-215ba	1,2,3-trichloropentafluoropropane；CFC-215ba	$C_3Cl_3F_5$	76-17-5
1,1,2-トリクロロペンタフルオロプロパン；CFC-215bb	1,1,2-trichloropentafluoropropane；CFC-215bb	$C_3HCl_3F_4$	812-30-6
1,1,3-トリクロロペンタフルオロプロパン；CFC-215ca	1,1,3-trichloropentafluoropropane；CFC-215ca	$C_3Cl_3F_5$	1652-81-9
1,1,1-トリクロロペンタフルオロプロパン；CFC-215cb	1,1,1-trichloropentafluoropropane；CFC-215cb	$C_3Cl_3F_5$	4259-43-2
ジクロロヘキサフルオロプロパン；CFC-216	Dichlorohexafluoropropane； 1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane； CFC-216	$C_3F_6Cl_2$	661-97-2
モノクロロヘプタフルオロプロパン；CFC-217	Monochloroheptafluoropropane；CFC-217	C_3F_7Cl	422-86-6
・Annex B　Group II :tetrachloride			
四塩化炭素（テトラクロロメタン）	Carbon tetrachloride	CCl_4	56-23-5
・Annex B　Group III :1,1,1-Trichloroethane			
1,1,1-トリクロロエタン	1,1,1-trichloroethane	$C_2H_3Cl_3$	71-55-6
・Annex C　Group II :HBFC			
ジブロモフルオロメタン	Dibromofluoromethane	$CHFBr_2$	1868-53-7
ブロモジフルオロメタンおよび異性体(HBFC類)	Bromodifluoromethane and Isomers (HBFCs)	CHF_2Br	1511-62-2
ブロモフルオロメタン	Bromofluoromethane	CH_2FBr	373-52-4
テトラブロモフルオロエタン	Tetrabromofluoroethane	C_2HFBr_4	306-80-9
トリブロモジフルオロエタン	Tribromodifluoroethane	$C_2HF_2Br_3$	-
ジブロモトリフルオロエタン	Dibromotrifluoroethane; 1,2-Dibromo-1,1,2-trifluoroethane	$C_2HF_3Br_2$	354-04-1

ブロモテトラフルオロエタン	Bromotetrafluoroethane	C_2HF_4Br	124-72-1
トリブロモフルオロエタン	Tribromofluoroethane	$C_2H_2FBr_3$	-
ジブロモジフルオロエタン	Dibromodifluoroethane	$C_2H_2F_2Br_2$	75-82-1
ブロモトリフルオロエタン	Bromotrifluoroethane	$C_2H_2F_3Br$	421-06-7
ジブロモフルオロエタン	Dibromofluoroethane	$C_2H_3FBr_2$	358-97-4
ブロモジフルオロエタン	Bromodifluoroethane	$C_2H_3F_2Br$	420-47-3
2-ブロモ-1,1-ジフルオロエタン	2-Bromo-1,1-difluoroethane	$C_2H_3F_2Br$	359-07-9
ブロモフルオロエタン	Bromofluoroethane	C_2H_4FBr	762-49-2
ヘキサブロモフルオロプロパン	Hexabromofluoropropane	C_3HFBr_6	-
ペンタブロモジフルオロプロパン	Pentabromodifluoropropane	$C_3HF_2Br_5$	-
テトラブロモトリフルオロプロパン	Tetrabromotrifluoropropane	$C_3HF_3Br_4$	-
トリブロモテトラフルオロプロパン	Tribromotetrafluoropropane	$C_3HF_4Br_3$	666-48-8
ジブロモペンタフルオロプロパン	Dibromopentafluoropropane	$C_3HF_5Br_2$	431-78-7
ブロモヘキサフルオロプロパン	Bromohexafluoropropane	C_3HF_6Br	2252-79-1 2252-78-0
ペンタブロモフルオロプロパン	Pentabromofluoropropane	$C_3H_2FBr_5$	-
テトラブロモジフルオロプロパン	Tetrabromodifluoropropane	$C_3H_2F_2Br_4$	148875-98-3
トリブロモトリフルオロプロパン	Tribromotrifluoropropane	$C_3H_2F_3Br_3$	-
ジブロモテトラフルオロプロパン	Dibromotetrafluoropropane	$C_3H_2F_4Br_2$	-
ブロモペンタフルオロプロパン	Bromopentafluoropropane	$C_3H_2F_5Br$	460-88-8
テトラブロモフルオロプロパン	Tetrabromofluoropropane	$C_3H_3FBr_4$	148875-95-0
トリブロモジフルオロプロパン	Tribromodifluoropropane	$C_3H_3F_2Br_3$	70192-80-2
ジブロモトリフルオロプロパン	Dibromotrifluoropropane	$C_3H_3F_3Br_2$	70192-83-5 431-21-0
ブロモテトラフルオロプロパン	Bromotetrafluoropropane	$C_3H_3F_4Br$	679-84-5
トリブロモフルオロプロパン	Tribromofluoropropane	$C_3H_4FBr_3$	75372-14-4
ジブロモジフルオロプロパン	Dibromodifluoropropane	$C_3H_4F_2Br_2$	460-25-3
ブロモトリフルオロプロパン	Bromotrifluoropropane	$C_3H_4F_3Br$	421-46-5
ジブロモフルオロプロパン	Dibromofluoropropane	$C_3H_5FBr_2$	51584-26-0
ブロモジフルオロプロパン	Bromodifluoropropane	$C_3H_5F_2Br$	-
ブロモフルオロプロパン	Bromofluoropropane	C_3H_6FBr	1871-72-3
1-ブロモ-3-フルオロプロパン	1-Bromo-3-fluoropropane	C_3H_6FBr	352-91-0
・Annex C　Group III :Bromochloromethane			
ブロモクロロメタン	Bromochloromethane	CH_2BrCl	74-97-5
・Annex E　Group I :Bromomethane			
ブロモメタン(臭化メチル)	Bromomethane (Methyl Bromide)	CH_3Br	74-83-9
・Annex C　Group I :HCFCs			
ジクロロフルオロメタン；HCFC-21	Dichlorofluoromethane；HCFC-21	$CHFCl_2$	75-43-4
クロロジフルオロメタン；HCFC-22	Chlorodifluoromethane；HCFC-22	CHF_2Cl	75-45-6
クロロフルオロメタン；HCFC-31	Chlorofluoromethane；HCFC-31	CH_2FCl	593-70-4
テトラクロロフルオロエタン；HCFC-121	Tetrachlorofluoroethane　；HCFC-121	C_2HFCl_4	134237-32-4
1,1,1,2-テトラクロロ-2-フルオロエタン；HCFC-121a	1,1,1,2-tetrachloro-2-fluoroethane；HCFC 121a	C_2HCl_4F	354-11-0
1,1,2,2-テトラクロロ-1-フルオロエタン	1,1,2,2-tetracloro-1-fluoroethane	C_2HCl_4F	354-14-3
トリクロロジフルオロエタン；HCFC-122	Trichlorodifluoroethane；HCFC-122	$C_2HF_2Cl_3$	41834-16-6
1,2,2-トリクロロ-1,1-ジフルオロエタン；HCFC-122	1,2,2-trichloro-1,1-difluoroethane；HCFC-122	$C_2HCl_3F_2$	354-21-2

1,1,2-トリクロロ-1,2-ジフルオロエタン；HCFC-122a	Ethane, 1,2-difluoro-1,1,2-trichloro- ；HCFC-122a	$C_2HF_2Cl_3$	354-15-4
1,1,1-トリクロロ-2,2-ジフルオロエタン；HCFC-122b	1,1,1-trichloro-2,2-difluoroethane ; HCFC-122b	$C_2HF_2Cl_3$	354-12-1
ジクロロトリフルオロエタン；HCFC-123	Dichlorotrifluoroethane ; HCFC-123	$C_2HF_3Cl_2$	34077-87-7
2,2-ジクロロ-1,1,1-トリフルオロエタン；HCFC-123	2.2-dichloro1,1,1-fluoroethane ; HCFC-123	$C_2HCl_2F_3$	306-83-2
ジクロロ-1,1,2-トリフルオロエタン	Dichloro-1,1,2-trifluoroethane	$C_2HCl_2F_3$	90454-18-5
1,2-ジクロロ-1,1,2-トリフルオロエタン；HCFC-123a	1,2-dichloro-1,1,2-trifluroethane ; HCFC-123a	$C_2HCl_2F_3$	354-23-4
1,1-ジクロロ-1,2,2-トリフルオロエタン；HCFC-123b	1,1-dichloro-1,2,2-trifluroethane ; HCFC-123b	$C_2HCl_2F_3$	812-04-4
その他のジクロロトリフルオロエタン	Other dichlorotrifluoroethane	-	-
2-クロロ-1,1,1,2-テトラフルオロエタン；HCFC-124	2-chloro-1,1,1,2-tetrafluoroethane ; HCFC-124	C_2HF_4Cl	2837-89-0
クロロテトラフルオロエタン；HCFC-124	Chlorotetrafluoroethane ; HCFC-124	$CHFClCF_3$	63938-10-3
1-クロロ-1,1,2,2-テトラフルオロエタン；HCFC-124a	1-chloro-1,1,2,2-tetrafluoroethane ; HCFC 124a	C_2HClF_4	354-25-6
その他のクロロテトラフルオロエタン	Other chlorotetrafluoroethane	-	-
トリクロロフルオロエタン；HCFC-131	Trichlorofluoroethane ; HCFC-131	$C_2H_2FCl_3$	134237-34-6 27154-33-2
1-フルオロ-1,2,2-トリクロロエタン；HCFC-131	1-Fluoro-1,2,2-trichloroethane ；HCFC131	$C_2H_2Cl_3F$	359-28-4
1,1,2-トリクロロ-1-フルオロエタン；HCFC-131a	1,1,2-trichloro-1-fluoroethane ; HCFC131a	$C_2H_2Cl_3F$	811-95-0
1,1,1-トリクロロ-2-フルオロエタン；HCFC-131b	Ethane, 1,1,1-trichloro-2-fluoro- ；HCFC131b	$C_2H_2Cl_3F$	2366-36-1
ジクロロジフルオロエタン；HCFC-132	Dichlorodifluoroethane ; HCFC-132	$C_2H_2F_2Cl_2$	25915-78-0
1,2-ジクロロ-1,1-ジフルオロエタン；HCFC-132b	1,2-dichloro-1,1-difluoroethane ; HCFC 132b	$C_2H_2Cl_2F_2$	1649-08-7
1,1-ジクロロ-1,2-ジフルオロエタン；HCFC-132c	1,1-dichloro-1,2-difluoroethane ; HFCF 132c	$C_2H_2Cl_2F_2$	1842-05-3
1,1-ジクロロ-2,2-ジフルオロエタン	1,1-dichloro-2,2-difluoroethane	$C_2H_2Cl_2F_2$	471-43-2
1,2-ジクロロ-1,2-ジフルオロエタン	1,2-dichloro-1,2-difluoroethane	$C_2H_2Cl_2F_2$	431-06-1
クロロトリフルオロエタン；1-クロロ-1,2,2-トリフルオロエタン; HCFC-133	Chlorotrifluoroethane ; 1-chloro-1,2,2-trifluoroethane; HCFC 133	$C_2H_2F_3Cl$	1330-45-6 431-07-2
2-クロロ-1,1,1-トリフルオロエタン；HCFC-133a	2-chloro-1,1,1-trifluoroethane ；HCFC-133a	$C_2H_2F_3Cl$	75-88-7
1-クロロ-1,1,2-トリフルオロエタン；HCFC-133b	1-chloro-1,1,2-trifluoroethane ; HCFC-133b	$C_2H_2F_3Cl$	421-04-05
ジクロロフルオロエタン；HCFC-141	Dichlorofluoroethane ; HCFC-141	$C_2H_3FCl_2$	25167-88-8
1,2-ジクロロ-1-フルオロエタン；HCFC-141	1,2-dichloro-1-fluoroethane ; HCFC-141	$C_2H_3FCl_2$	430-57-9
1,1-ジクロロ-2-フルオロエタン；HCFC-141a	1,1-dichloro-2-fluoroethane ; HCFC-141a	$C_2H_3FCl_2$	430-53-5
1,1-ジクロロ-1-フルオロエタン；HCFC-141b	1,1-dichloro-1-fluoroethane ; HCFC-141b	CH_3CFCl_2	1717-00-6
その他のジクロロフルオロエタン	Other dichlorofluoroethane	-	-

クロロジフルオロエタン；HCFC-142	ChlorodiFluoroethane；HCFC-142	$C_2H_3F_2Cl$	25497-29-4
2-クロロ-1,1-ジフルオロエタン；HCFC-142	2-Chloro-1,1-difluoroethane；HCFC-142	CH_3CF_2Cl	338-65-8
1-クロロ-1,1-ジフルオロエタン；HCFC-142b	1-chloro-1,1-difluoroethane；HCFC-142b	CH_3CF_2Cl	75-68-3
1-クロロ-1,2-ジフルオロエタン；HCFC-142a	1-Chloro-1,2-difluoroethane；HCFC-142a	CH_3CF_2Cl	338-64-7
その他のクロロジフルオロエタン	Other chlorodifluoroethane	-	-
クロロフルオロエタン；HCFC-151	chlorofluoroethane；HCFC-151	C_2H_4FCl	110587-14-9
1-クロロ-2-フルオロエタン；HCFC-151	1-chloro-2-fluoroethane；HCFC-151	C_2H_4FCl	762-50-5
1-クロロ-1-フルオロエタン；HCFC-151	1-chloro-1-fluoroethane；HCFC-151	C_2H_4FCl	1615-75-4
ヘキサクロロフルオロプロパン；HCFC-221	Hexachlorofluoropropane；HCFC-221	C_3HFCl_6	134237-35-7 29470-94-8
1,1,1,2,2,3-ヘキサクロロ-1-フルオロプロパン；HCFC-221ab	1,1,1,2,2,3-Hexachloro-1-fluoropropane；HCFC-221ab	C_3HFCl_6	422-26-4
ペンタクロロジフルオロプロパン；HCFC-222	Pentachlorodifluoropropane；HCFC-222	$C_3HF_2Cl_5$	134237-36-8
1,1,1,3,3,-ペンタクロロ-2,2-ジフルオロプロパン；HCFC-222ca	1,1,1,3,3-Pentachloro-2,2-difluoropropane；HCFC-222ca	$C_3HF_2Cl_5$	422-49-1
1,2,2,3,3-ペンタクロロ-1,1-ジフルオロプロパン；HCFC-222aa	1,2,2,3,3-Pentachloro-1,1-difluoropropane；HCFC-222aa	$C_3HF_2Cl_5$	422-30-0
テトラクロロトリフルオロプロパン；HCFC-223	Tetrachlorotrifluoropropane；HCFC-223	$C_3HF_3Cl_4$	134237-37-9
1,1,3,3-テトラクロロ-1,2,2-トリフルオロプロパン	1,1,3,3-Tetrachloro-1,2,2-trifluoropropane	$C_3HF_3Cl_4$	422-52-6
1,1,1,3-テトラクロロ-2,2,3-トリフルオロプロパン	1,1,1,3-Tetrachloro-2,2,3-trifluoropropane	$C_3HF_3Cl_4$	422-50-4
トリクロロテトラフルオロプロパン；HCFC-224	Trichlorotetrafluoropropane；HCFC-224	$C_2HF_4Cl_3$	134237-38-0
1,3,3-トリクロロ-1,1,2,2,-テトラフルオロプロパン；HCFC-224	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane；HCFC-224	$C_2HF_4Cl_3$	422-54-8
1,1,3-トリクロロ-1,2,2,3-テトラフルオロプロパン	1,1,3-Trichloro-1,2,2,3-tetrafluoropropane	$C_2HF_4Cl_3$	422-53-7
1,1,1-トリクロロ-2,2,3,3-テトラフルオロプロパン	1,1,1-Trichloro-2,2,3,3-tetrafluoropropane	$C_3HF_4Cl_3$	422-51-5
ジクロロペンタフルオロプロパン；HCFC-225	Dichloropentafluoropropane；HCFC-225	$C_3HF_5Cl_2$	127564-92-5
2,2-ジクロロ-1,1,1,3,3,-ペンタフルオロプロパン；HCFC-225aa	2,2-Dichloro-1,1,1,3,3-pentafluoropropane；HCFC-225aa	$C_3HF_5Cl_2$	128903-21-9
2,3-ジクロロ-1,1,1,2,3-ペンタフルオロプロパン；HCFC-225ba	2,3-dichloro-1,1,1,2,3-pentafluoropropane；HCFC-225ba	$C_3HF_5Cl_2$	422-48-0
1,2-ジクロロ-1,1,2,3,3-ペンタフルオロプロパン；HCFC-225bb	1,2-dichloro-1,1,2,3,3-pentafluoropropane；HCFC-225bb	$C_3HF_5Cl_2$	422-44-6
3,3-ジクロロ-1,1,1,2,2-ペンタフルオロプロパン；HCFC-225ca	3.3-dichloro-1,1,1,2,2-pentafluoropropane；HCFC-225ca	$C_3HCl_2F_5$	422-56-0
1,3-ジクロロ-1,2,2,3,3,-ペンタフルオロプロパン；HCFC-225cb	1,3-dichloro-1,1,2,2,3-pentafluoropropane；HCFC-225cb	$C_3HCl_2F_5$	507-55-1
1,1-ジクロロ-1,2,2,3,3-ペンタフルオロプロパン；HCFC-225cc	1,1-dichloro-1,2,2,3,3-pentafluoropropane；HCFC-225cc	$C_3HCl_2F_5$	13474-88-9
1,2-ジクロロ-1,1,3,3,3-ペンタフルオ	1,2-dichloro-1,1,3,3,3-pentafluoropropane；	$C_3HCl_2F_5$	431-86-7

ロプロパン；HCFC-225da	HCFC-225da		
1,3-ジクロロ-1,1,2,3,3-ペンタフルオロプロパン；HCFC-225ea	1,3-dichloro-1,1,2,3,3-pentafluoropropane；HCFC-225ea	$C_3HCl_2F_5$	136013-79-1
1,1-ジクロロ-1,2,3,3,3-ペンタフルオロプロパン；HCFC-225eb	1,1-dichloro-1,2,3,3,3-pentafluoropropane；HCFC-225eb	$C_3HCl_2F_5$	111512-56-2
その他のジクロロペンタフルオロプロパン	Other dichloropentafluoropropane	-	-
クロロヘキサフルオロプロパン；HCFC-226	Chlorohexafluoropropane；HCFC-226	C_3HF_6Cl	134308-72-8
2-クロロ-1,1,1,3,3,3-ヘキサフルオロプロパン；HCFC-226da	2-Chloro-1,1,1,3,3,3-hexafluoropropane；HCFC-226da	C_3HF_6Cl	431-87-8
ペンタクロロフルオロプロパン；HCFC-231	Pentachlorofluoropropane；HCFC-231	$C_3H_2FCl_5$	134190-48-0
1,1,1,2,3-ペンタクロロ-2-フルオロプロパン	1,1,1,2,3-Pentachloro-2-fluoropropane	$C_3H_2FCl_5$	421-94-3
テトラクロロジフルオロプロパン；HCFC-232	Tetrachlorodifluoropropane；HCFC-232	$C_3H_2F_2Cl_4$	134237-39-1
1,1,1,3-テトラクロロ-3,3-ジフルオロプロパン	1,1,1,3-Tetrachloro-3,3-difluoropropane	$C_3H_2F_2Cl_4$	460-89-9
トリクロロトリフルオロプロパン；HCFC-233	Trichlorotrifluoropropane；HCFC-233	$C_3H_2F_3Cl_3$	134237-40-4
1,1,1-トリクロロ-3,3,3-トリフルオロプロパン	1,1,1-trichloro-3,3,3-trifluoropropane	$C_3H_2F_3Cl_3$	7125-83-9
ジクロロテトラフルオロプロパン；HCFC-234	Dichlorotetrafluoropropane；HCFC-234	$C_3H_2F_4Cl_2$	127564-83-4
1,2-ジクロロ-1,2,3,3-テトラフルオロプロパン	1,2-Dichloro-1,2,3,3-tetrafluoropropane	$C_3H_2F_4Cl_2$	425-94-5
クロロペンタフルオロプロパン；HCFC-235	Chloropentafluoropropane；HCFC-235	$C_3H_2F_5Cl$	134237-41-5
1-クロロ-1,1,3,3,3-ペンタフルオロプロパン	1-chloro-1,1,3,3,3-pentafluoropropane	$C_3H_2F_5Cl$	460-92-4
テトラクロロフルオロプロパン；HCFC-241	Tetrachlorofluoropropane；HCFC-241	$C_3H_3FCl_4$	134190-49-1
1,1,2,3-テトラクロロ-1-フルオロプロパン	1,1,2,3-Tetrachloro-1-fluoropropane	$C_3H_3FCl_4$	666-27-3
トリクロロジフルオロプロパン；HCFC-242	Trichlorodifluoropropane；HCFC-242	$C_3H_3F_2Cl_3$	134237-42-6
1,3,3-トリクロロ-1,1-ジフルオロプロパン	1,3,3-Trichloro-1,1-difluoropropane	$C_3H_3F_2Cl_3$	460-63-9
ジクロロトリフルオロプロパン；HCFC-243	Dichlorotrifluoropropane；HCFC-243	$C_3H_3F_3Cl_2$	134237-43-7
1,1-ジクロロ-1,2,2-トリフルオロプロパン	1,1-dichloro-1,2,2-trifluoropropane	$C_3H_3F_3Cl_2$	7125-99-7
2,3-ジクロロ-1,1,1-トリフルオロプロパン	2,3-dichloro-1,1,1-trifluoropropane	$C_3H_3F_3Cl_2$	338-75-0
3,3-ジクロロ-1,1,1-トリフルオロプロパン	3,3-Dichloro-1,1,1-trifluoropropane	$C_3H_3F_3Cl_2$	460-69-5
クロロテトラフルオロプロパン；HCFC-244	Chlorotetrafluoropropane；HCFC-244	$C_3H_3F_4Cl$	134190-50-4
3-クロロ-1,1,2,2-テトラフルオロプロパン	3-chloro-1,1,2,2-tetrafluoropropane	$C_3H_3F_4Cl$	679-85-6
1-クロロ-1,1,2,2-テトラフルオロプロ	1-chloro-1,1,2,2-tetrafluoropropane	$C_3H_3F_4Cl$	421-75-0

パン			
トリクロロフルオロプロパン；HCFC-251	Trichlorofluoropropane；HCFC-251	$C_3H_4FCl_3$	134190-51-5
1,1,3-トリクロロ-1-フルオロプロパン	1,1,3-trichloro-1-fluoropropane	$C_3H_4FCl_3$	818-99-5
1,1,2-トリクロロ-1-フルオロプロパン；HCFC-251dc	1,1,2-trichloro-1-fluoropropane；HCFC-251dc	$C_3H_4FCl_3$	421-41-0
ジクロロジフルオロプロパン；HCFC-252	Dichlorodifluoropropane；HCFC-252	$C_3H_4F_2Cl_2$	134190-52-6
1,3-ジクロロ-1,1-ジフルオロプロパン；HCFC-252fb	1,3-Dichloro-1,1-difluoropropane；HCFC-252fb	$C_3H_4F_2Cl_2$	819-00-1
クロロトリフルオロプロパン；HCFC-253	Chlorotrifluoropropane；HCFC-253	$C_3H_4F_3Cl$	134237-44-8
3-クロロ-1,1,1-トリフルオロプロパン;HCFC253fb	3-chloro-1,1,1-trifluoropropane；HCFC 253fb	$C_3H_4F_3Cl$	460-35-5
ジクロロフルオロプロパン；HCFC-261	Dichlorofluoropropane；HCFC-261	$C_3H_5FCl_2$	134237-45-9
1,1-ジクロロ-1-フルオロプロパン	1,1-dichloro-1-fluoropropane	$C_3H_5FCl_2$	7799-56-6
1,2-ジクロロ-2-フルオロプロパン；HCFC-261b	1,2-dichloro-2-fluoropropane；HCFC-261b	$C_3H_5FCl_2$	420-97-3
クロロジフルオロプロパン；HCFC-262	Chlorodifluoropropane；HCFC-262	$C_3H_5F_2Cl$	134190-53-7
1-クロロ-2,2-ジフルオロプロパン	1-chloro-2,2-difluoropropane	$C_3H_5F_2Cl$	420-99-5
2-クロロ-1,3-ジフルオロプロパン	2-chloro-1,3-difluoropropane	$C_3H_5F_2Cl$	102738-79-4
1-クロロ-1,1-ジフルオロプロパン；HCFC-262fc	1-chloro-1,1-difluoropropane；HCFC-262fc	$C_3H_5F_2Cl$	421-02-3
クロロフルオロプロパン；HCFC-271	Chlorofluoropropane；HCFC-271	C_3H_6FCl	134190-54-8
2-クロロ-2-フルオロプロパン	2-chloro-2-fluoropropane	C_3H_6FCl	420-44-0
1-クロロ-1-フルオロプロパン	1-chloro-1-fluoropropane	-	430-55-7
・Others			
ジフルオロジブロモメタン	Difluorodibromomethane	CBr_2F_2	75-61-6
1-ブロモプロパン(臭化n-プロピル)	1-Bromopropane (n-propyl bromide)	C_3H_7Br	106-94-5
ブロモエタン(臭化エチル)	Bromoethane (ethyl bromide)	C_2H_5Br	74-96-4
トリフルオロイオドメタン(ヨウ化トリフルオロメチル)	Trifluoroiodomethane (trifluoromethyl iodide)	CF_3I	2314-97-8
クロロメタン(塩化メチル)	Chloromethane (methyl chloride)	CH_3Cl	74-87-3

(3) Principal uses for substances

Part	Purpose
Compressors, foamed plastics, fire extinguishers	Refrigerants, foaming agents, extinguishants (Labeling requirements apply not only to products, but also to cleaning agents and other items used in production processes.)

Table 2-I-24 Perfluorooctane sulfonic acid (PFOS), its salts, and PFOS-related compounds

(1) Details

No. I-24	Substance Group: Perfluorooctane sulfonic acid (PFOS), its salts, and PFOS-related compounds			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Chemicals (substances, mixtures)	・Not containing	*1
		・All uses	・PFOS and its salts are below 0.025 mg/kg (0.0000025 wt%). ・PFOS-related compounds are below 1 mg/kg (0.0001 wt%).	*2
		・All uses	・Not containing	*3
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act. *2 EU POPs Regulation (EU)2019/1021 Annex I *3 Canadian Environmental Protection Act (CEPA 1999 SOR)			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ペルフルオロ-1-オクタンスルホン酸カリウム(PFOS)	Perfluorooctane sulfonate potassium salt	$C_8F_{17}SO_2X$ (X = Other derivatives including hydroxyls, metal salts, halogenated compounds, amides and polymers)	2795-39-3 JAMP-SN0035	-

(3) Principal uses for substances

Part	Purpose
Paints, coating materials, industrial cleaning agents, semiconductor manufacturing processes, electroplating processes	Smoothing agents, surfactants, anti-foaming agents

Table 2-I-25 Specific benzotriazole: 2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol

(1) Details

No. I-25	Substance Group: Specific benzotriazole: 2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	Anti-UV materials and UV absorbers used in the following applications ・Molded plastic parts ・Decorative laminates ・Photographic paper ・Adhesives (excluding animal and plant-based adhesives), putties, stopping and sealing fillers	-Intentional inclusion prohibited	*1

		・Paints and printing inks		
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act.			

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
特定ベンゾトリアゾール：2-(2H-1,2,3-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ブチルフェノール	Specific benzotriazole:2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol	C20H25N3O	3846-71-7

(3) Principal uses for substances

Part	Purpose
Molded plastic parts, decorative laminates, photographic paper, adhesives (excluding animal and plant-based adhesives), putties, stopping and sealing fillers, paints and printing inks	Anti-UV materials and UV absorbers

Table 2-I-26 Formaldehyde

(1) Details

No. I-26	Substance Group: Formaldehyde CAS No: 50-00-0			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Other than furniture and wood products	-The concentration of formaldehyde released from molded products is 0.080 mg/m3 or less	*1 *2
Exemption	*2 The following items are exempted: - Devices within the scope of (EU)2015/745 (EU MDR) - Personal protective equipment within the scope of (EU) 2016/425 (EU PPER) - Biocidal products within the scope of (EU) No 528/2012 (EU BPR)			
Note	*1 Annex XVII to REACH (restriction)			

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
ホルムアルデヒド	Formaldehyde	CH2O	50-00-0

(3) Principal uses for substances

Part	Purpose
Wood products using materials such as particle boards and MDF (medium density fiberboard)	Adhesives and preservatives for wood

Table 2-I-27 Dimethylfumarate (DMF)

(1) Details

No. I-27	Substance Group: Dimethylfumarate (DMF) CAS No: 624-49-7			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications	-Less than 0.1ppm in article or part thereof	*1
Note	*1 Annex XVII to REACH (restriction)			

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
ジメチルフマレート(DMF)	Dimethyl fumarate	C6H8O4	624-49-7

(3) Principal uses for substances

Part	Purpose
Biocide, electronic leather seats including recliners and massage chairs	Biocide, mold treatment

Table 2-I-28 Fluorinated Greenhouse Gases (PFC, SF6, HFC)

(1) Details

No. I-28	Substance Group: Fluorinated Greenhouse Gases (PFC, SF6, HFC)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	1) SF6, HFC ・All applications	-Intentional inclusion prohibited	*1
		2) PFC ・All applications listed below Disposable containers, can-cooling systems containing refrigerants, fire prevention systems and fire extinguishers, household windows, other windows, shoes, tires, one-component foaming agents		
Note	*1 (EC)No 517/2014 The Regulation on certain fluorinated greenhouse gases			

(2) Regulated substances

Substance (Japanese)	Substance (English)	CAS No. or JAMP No.
テトラフルオロメタン (4 フッ化炭素、PFC-14)	Tetrafluoromethane (Carbon tetrafluoride, PFC-14)	75-73-0
ヘキサフルオロエタン(PF C-116)	Hexafluoroethane (PFC-116)	76-16-4
オクタフルオロプロパン(PFC-218)	Octafluoropropane (PFC-218)	76-19-7
デカフルオロブタン(PFC-31-10)	Decafluorobutane (PFC-31-10)	355-25-9
ドデカフルオロペンタン(PFC-41-12)	Dodecafluoropentane (PFC-41-12)	678-26-2
テトラデカフルオロヘキサン(PFC-51-14)	Tetradecafluorohexane (PFC-51-14)	355-42-0
オクタフルオロシクロブタン(PFC-c318)	Octafluorocyclobutane (PFC-c318)	115-25-3
6 フッ化硫黄(SF6)	Sulfur Hexafluoride (SF6)	2551-62-4
トリフルオロメタン	Trifluoromethane	75-46-7
ジフルオロメタン	Difluoromethane	75-10-5
フルオロメタン	Methyl fluoride	593-53-3
1,1,1,2,2,3,4,5,5,5-デカフルオロペンタン (HFC-43-10mee)	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro- (HFC-43-10mee)	138495-42-8
ペンタフルオロエタン	Ethane, pentafluoro-	354-33-6
1,1,2,2-テトラフルオロエタン (HFC-134)	1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
1,1,1,2-テトラフルオロエタン (HFC-134a)	1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
1,1-ジフルオロエタン (HFC-152a)	1,1-Difluoroethane (HFC-152a)	75-37-6
1,1,2-トリフルオロエタン(H FC-143)	1,1,2-Trifluoroethane.(HFC-143)	430-66-0
1,1,1-トリフルオロエタン	Ethane, 1,1,1-trifluoro-	420-46-2
1,1,1,2,3,3,3-ヘプタフルオロプロパン	Propane, 1,1,1,2,3,3,3-heptafluoro-	431-89-0
1,1,1,2,2,3-ヘキサフルオロプロパン (HFC-	1,1,1,2,2,3-hexafluoro-propane (HFC-236cb)	677-56-5

236cb)		
1,1,1,2,3,3-ヘキサフルオロプロパン(HFC-236ea)	1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)	431-63-0
1,1,1,3,3,3-ヘキサフルオロプロパン(HFC-236fa)	1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)	690-39-1
1,1,2,2,3-ペンタフルオロプロパン(HFC-245ca)	1,1,2,2,3-Pentafluoropropane (HFC-245ca)	679-86-7
1,1,1,3,3-ペンタフルオロプロパン	1,1,1,3,3-Pentafluoropropane	460-73-1
1,1,1,3,3-ペンタフルオロブタン	1,1,1,3,3-Pentafluorobutane	406-58-6
1,1,1,2,2-ペンタフルオロプロパン	1,1,1,2,2-Pentafluoropropane	1814-88-6
1,1,1,2,2,3,3-ヘプタフルオロプロパン	1,1,1,2,2,3,3-Heptafluoropropane	2252-84-8
ジフルオロエタン	Difluoroethane	25497-28-3
ヘキサフルオロプロパン	Propane, hexafluoro-	27070-61-7
トリフルオロエタン	Trifluoroethane	27987-06-0
フルオロエタン	Ethyl fluoride	353-36-6
1,2-ジフルオロエタン	1,2-Difluoroethane	624-72-6
1,1-ジフルオロエチレン	Vinylidene fluoride	75-38-7
ハイドロフルオロカーボン(HFC)類	Hydrofluorocarbons (HFC's)	SN0062

(3) Principal uses for substances

Part	Purpose
Tires, windows, fire extinguishers, shoes, disposable containers, aerosols	Refrigerants, blowing agents, extinguishants, cleaning agents, insulating media, caustic gas

Table 2-I-29 Phthalate esters (BBP, DBP, DEHP, DIBP)

(1) Details

No. I-29	Substance Group: Phthalate esters (BBP, DBP, DEHP, DIBP)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Substances and mixtures that contain DEHP, BBP, DBP and/or DIBP	-Intentional inclusion prohibited	*1
		-DEHP, BBP, DBP, DIBP: Articles specified in Categories 1 through 11 of Annex I to RoHS Directive (2011/65/EU)	-1000 ppm or less in homogeneous material	*2
		-Articles containing plasticized material that includes DEHP, BBP, DBP and/or DIBP "Plasticized material" means any of the following homogeneous materials: - Polyvinyl chloride (PVC), polyvinylidene chloride (PVDC), any other polymer similar to polyvinyl acetate (PVA), and any other plastics, excluding polyolefin - Polyurethane and any other foamed rubber and plastics, excluding rubber, silicone rubber and natural latex coatings - Surface coatings, non-slip coatings, finishes, decals, printed designs, - Adhesives, sealants, paints and inks	-Less than 1000 ppm in total of these four substances in homogeneous material	*3
Exemption	*1 Applications that are submitted to, and approved by, the European Chemicals Agency will be permitted. *3 Exempted applications are as follows: ・ Electrical and electronic equipment subject to RoHS Directive (2011/65/EU)			

	・ Medical devices, or parts thereof, subject to Medical Device Directive (93/42/EEC), In-Vitro Diagnostic Devices Directive (98/79/EC) and Active Implantable Medical Devices Directive (90/385/EEC) ・ Articles exclusively for industrial or agricultural use, or for use exclusively in the open air, provided that no plasticized material comes into contact with human mucous membranes or prolonged contact with human skin ・ Measuring devices for laboratory use, or parts thereof
Note	*1 Annex XIV to REACH (authorizations) *2 Annex II to RoHS Directive (2011/65/EU), addition of prohibited substances, (EU) 2015/863 *3 Annex XVII to REACH (restriction)

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
フタル酸n-ブチル=ベンジル(BBP)	Benzyl butyl phthalate (BBP)	$C_{19}H_{20}O_4$	85-68-7	-
フタル酸ジ-n-ブチル(DBP)	Dibutyl phthalate (DBP)	$C_{16}H_{22}O_4$	84-74-2	-
フタル酸ビス(2-エチルヘキシル)(DEHP)	Bis (2-ethylhexyl)phthalate (DEHP)	$C_{24}H_{38}O_4$	117-81-7	-
フタル酸ジイソブチル(DIBP)	Diisobutyl phthalate	$C_{16}H_{22}O_4$	84-69-5	-

(3) Principal uses for substances

Part	Purpose
Flexible polyvinyl chloride molded items, rubber, elastomer	Plastic plasticizers, dye, pigment, paint, ink, adhesive, lubricant

Table 2-I-30 Perfluorooctanoic acid (PFOA), its salts, PFOA-related substances and certain Long-Chain Perfluoroalkyl Carboxylates (LCPFAC)

(1) Details

No. I-30	Substance Group: Perfluorooctanoic acid (PFOA), its salts, PFOA-related substances and certain Long-Chain Perfluoroalkyl Carboxylates (LCPFAC)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	< PFOA and its salts > ・Substances or mixtures	・Intentional inclusion prohibited	*1
		< PFOA, its salts and PFOA-related substances > ・Substances or mixtures ・Articles other than invasive and implantable medical devices*3	・Less than 25ppb as PFOA including salts, or less than 1ppm as a total of all PFOA-related substances, in mixture or article	*2 *4 *8
		< Certain Long-Chain Perfluoroalkyl Carboxylates (LCPFAC) > ・Surface coating on article	-Intentional inclusion prohibited	*6 *7
	Immediate	< PFOA, its salts and PFOA-related substances > ・Substances or mixtures ・Articles (only invasive and implantable medical devices)*3*6	・Less than 25ppb as PFOA including salts, or less than 1ppm as a total of all PFOA-related substances, in mixture or article	*2 *4
Exemption	*7 - Medical devices under FDA			

	- All applications that they have already used for before 2015. - Impurities - 13 specific usages defined by US TSCA. E.g., for use in an antireflective coating, photoresists, or surfactant for use in photo microlithography or other process to produce semiconductors or similar components for electronics or other miniaturized devices. (https://www.govinfo.gov/content/pkg/FR-2020-07-27/pdf/2020-13738.pdf) *8 Medical devices other than invasive and implantable medical devices: The control value should be under 2 ppm (0.0002wt%).
Note	*1: Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act *2: Enforcement of the revised EU POPs regulation (EU 2021/115) *3: The definitions of medical devices and implantable medical devices are as provided by the Medical Device Directive 93/42/EEC. *4: PFOA-related substances are any related substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the formula C7F15- directly attached to another carbon atom, as one of the structural elements, or any related substance (including its salts and polymers) having a linear or branched perfluorooctyl group with the formula C8F17-, as one of the structural elements. The following substances are excluded from this designation: - C8F17-X, where X = F, Cl, Br. - C8F17-C(=O)OH, C8F17-C(=O)O-X or C8F17-CF2-X (X = any group, including salts). *5: Only applies to the invasive and implantable medical devices that are submitted and approved. *6: Significant New Use Rules (SNURs) under US TSCA: §721.9582 and §721.10536 of 40 CFR Part 721 (Significant New Uses of Chemical Substances) The regulated substances are Perfluorooctanoic acid (PFOA), its salts and the following certain Long-Chain Perfluoroalkyl Carboxylates (LCPFAC).

(2) Examples of substances< PFOA, its salts and PFOA-related substances: Japanese Chemical Substances Control Act, EU POPs regulation >

(The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ペルフルオロオクタン酸	Pentadecafluorooctanoic acid; PFOA - perfluorooctanoic acid	C8HF15O2	335-67-1	
ペンタデカフルオロオクタン酸フルオリド	Pentadecafluorooctyl fluoride	C8F16O	335-66-0	-
ペンタデカフルオロオクタン酸銀(I)	Pentadecafluorooctanoic acid silver(I) salt	C8AgF15O2	335-93-3	-
ペンタデカフルオロオクタン酸ナトリウム	Perfluorooctanoic acid sodium salt; Sodium salt of PFOA	C8F15NaO2	335-95-5	
ペンタデカフルオロオクタン酸メチル	Methyl perfluorooctanoate	C9H3F15O2	376-27-2	-
ペルフルオロオクタン酸カリウム	Potassium salt of PFOA	C8F15KO2	2395-00-8	-
ペンタデカフルオロオクタン酸エチル	Ethyl perfluorooctanoate	C10H5F15O2	3108-24-5	-
ペンタデカフルオロオクタン酸アンモニウム	Ammonium pentadecafluorooctanoate (APFO); Ammonium salt of PFOA	C8H4F15NO2	3825-26-1	-

PFOA とその塩	PFOA and its salts	-	JAMP-SN0036	-
ペルフルオロオクタン酸（PFOA）の塩	PFOA salts	-	JAMP-SN0102	-
PFOA 関連のポリマー	PFOA-related polymer	-	JAMP-SN0103	-

(3) Regulated substances < Certain Long-Chain Perfluoroalkyl Carboxylates (LCPFAC): US TSCA >

Substance (Japanese)	Substance (English)	CAS No. or JAMP-SN
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- ヘプタデカフルオロ-8-ヨードオクタン	Perfluorooctyl iodide	507-63-1
2-(ペルフルオロオクチル)エタノール	Tetrahydroperfluoro-1-decanol	678-39-7
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-ヘンエイコサフルオロドデカン-1-オール	Perfluoro-1-dodecanol	865-86-1
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- ヘプタデカフルオロ-10-ヨードデカン	Perfluorodecyl iodide	2043-53-0
1-ヨード-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-ヘニコサフルオロドデカン	1,1,2,2-Tetrahydroperfluorododecyl iodide	2043-54-1
α-[2-(アクリロイルオキシ)エチル]-ω-フルオロペルフルオロ(ポリ(2~7)エチレン)	Perfluorodecylethyl acrylate	17741-60-5
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-ヘプタデカフルオロデシル=アクリラート	1,1,2,2-Tetrahydroperfluorodecyl acrylate	27905-45-9
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-ペンタコサフルオロ-14-ヨードテトラデカン	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-Pentacosafluoro-14-iodotetradecane	30046-31-2
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-ペンタコサフルオロテトラデカン-1-オール	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-Pentacosafluorotetradecan-1-ol	39239-77-5
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-ノナコサフルオロヘキサデカン-1-オール	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-Nonacosafluorohexadecan-1-ol	60699-51-6
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14- ノナコサフルオロ-16-ヨードヘキサデカン	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-Nonacosafluoro-16-iodohexadecane	65510-55-6
ナトリウム=2-メチル-2-{3-[(1,1,2,2-テトラヒドロペルフルオロアルキル(C4-C16)スルファニル)プロパナミド]プロパン-1-スルホナート	Sodium;2-methylpropane-1-sulfonate	68187-47-3
γ-ω-ペルフルオロアルコール(C8-C14)	1,1,2,2-Tetrahydroperfluoroalkyl (C8-C14) alcohol	68391-08-2

チオール、C8-20、ガンマ-オメガ-パーフルオロ、アクリルアミドを含むテロマー	Thiols, C8-20, gamma-omegaperfluoro,telomers with acrylamide	70969-47-0
ケイ酸 (H4SiO4), 二ナトリウム塩, クロロトリメチルシランと3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-ヘプタデカフルオロ-1-デカノールとの反応生成物	Silicic acid (H4SiO4), sodium salt (1:2), reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol	125476-71-3
チオール、C4-20、γ-オメガ-パーフルオロ、アクリルアミドとアクリル酸のテロマー、ナトリウム塩	Thiols, C4-20, gamma-omegaperfluoro, telomers with acrylamide and acrylic acid, sodium salts)	1078712-88-5
1-プロパナミニウム、3-アミノ-N-（カルボキシメチル）-N、N-ジメチル-、N-（2-（（ガンマ-オメガ-ペルフルオロ-C4-20-アルキル）チオ）アセチル）誘導体、内部塩	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(2-((gamma-omega-perfluoro-C4–20-alkyl)thio)acetyl) derivs., inner salts	1078715-61-3
ポリフルオロアルキルベタイン（一般名）	Polyfluoroalkyl betaine (generic)	-(CBI)
変性フルオロアルキルウレタン（一般名）	Modified fluoroalkyl urethane (generic)	-(CBI)
過フッ素化ポリアミン（一般名）	Perfluorinated polyamine (generic)	-(CBI)

(4) Principal uses for substances

Part	Purpose
Surface coating agents, extinguishants	Additives, leveling agents for paints, aqueous film-forming foam extinguishants, surfactants

Table 2-I-31 Polycyclic-aromatic hydrocarbons (PAH)

(1) Details

No. I-31	Substance Group: Polycyclic-aromatic hydrocarbons (PAH)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with human skin or the oral cavity under normal or reasonably foreseeable conditions of use	-Less than 1mg/kg of any of the listed PAHs in components of articles (less than 0.0001% [1ppm] of the weight of such components)	*1
Exemption	*1 This regulation does not apply when supplied to parties other than the general public.			
Note	*1 Annex XVII to REACH (restriction)			

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No.or JAMP-SN
ベンゾ(a)ピレン	Benzo[a]pyrene (BaP)	$C_{20}H_{12}$	50-32-8
ベンゾ(e)ピレン	Benzo[e]pyrene (BeP)	$C_{20}H_{12}$	192-97-2
ベンゾ(a)アントラセン	Benzo[a]anthracene (BaA)	$C_{20}H_{12}$	56-55-3
クリセン	Chrysene (CHR)	$C_{20}H_{12}$	218-01-9
ベンゾ(b)フルオランテン	Benzo[b]fluoranthene (BbFA)	$C_{20}H_{12}$	205-99-2
ベンゾ(j)フルオランテン	Benzo[j]fluoranthene (BjFA)	$C_{20}H_{12}$	205-82-3

ベンゾ(k)フルオランテン	Benzo[k]fluoranthene (BkFA)	$C_{20}H_{12}$	207-08-9
ジベンズ(a,h)アントラセン	Dibenzo[a,h]anthracene (DBAhA)	$C_{22}H_{14}$	53-70-3

(3) Principal uses for substances

Part	Purpose
Byproducts generated by combustion of petroleum products Volatile PAHs are contained in some industrial articles (essential oils, lubricants, biocides, adhesives, and paints)	-

Table 2-I-32 Pentachlorophenol and its salts and esters

(1) Details

No. I-32	Subject Group: Pentachlorophenol and its salts and esters			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	-All applications	Intentional inclusion prohibited	*1
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act., the EU POPs regulation			

(2) Examples of substances (The table below does not cover all the substances in this substance group.)

Substance (Japanese)	Substance (English)	Chemical formula	CAS No. or JAMP-SN	Metal conversion factor
ペンタクロロフェノール	Pentachlorophenol	C_6Cl_5OH	87-86-5	-
ペンタクロロフェノールナトリウム	Sodium pentachlorophenol	C_6Cl_5NaO	131-52-2	-
ペンタクロロフェノールナトリウム一水和物	Sodium pentachlorophenol monohydrate	$C_6Cl_5NaO \cdot H_2O$	27735-64-4	-
ペンタクロロフェニルラウレート	Pentachlorophenyl laurate	$C_{18}H_{23}Cl_5O_2$	3772-94-9	-
ペンタクロロアニソール	Pentachloreanisole	$C_7H_3Cl_5O$	1825-21-4	-
メチル水銀ペンタクロロフェノキシド	Methyl(pentachlorophenolato)mercury	C7H4Cl5HgO	5902-76-1	-
ペンタクロロフェノール＝ナトリウム塩	Phenol, pentachloro-, sodium salt, decahydrate	C6Cl5NaO・(H2O)10	27735-63-3	-
カルシウム＝ビス（ペンタクロロフェノラート）	Calcium bis(pentachlorophenolate)	C12CaCl10O2	55868-72-9	-
ペンタクロルフェノール塩類及びこれを含有する製剤	PCP-Na hydrate	C6H2Cl5NaO2	123333-54-0	-

(3) Principal uses for substances

Part	Purpose
Wood products, leather products	Preservative

Table 2-I-33　Phenol, Isopropylated Phosphate (3:1)

(1) Details

No. I-33	Substance Group: Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・Substances and mixtures, excluding adhesives and sealants	-Intentional inclusion prohibited	*1
	Immediate	・Articles	-Intentional inclusion prohibited	*2
	Immediate	・Adhesives and sealants	-Intentional inclusion prohibited	*1
Exemption	«FDA-registered medical devices» The following Official Journal is applicable. TSCA: CHAPTER 53—TOXIC SUBSTANCES CONTROL SUBCHAPTER I—CONTROL OF TOXIC SUBSTANCES Sec. 2602. Definitions. (2)(vi) (https://www.govinfo.gov/content/pkg/USCODE-2018-title15/pdf/USCODE-2018-title15-chap53.pdf) (Note) FDA-registered medical devices are not subject to TSCA but Olympus may require suppliers to report the contents of these substances so that Olympus can confirm the exemptions are applied.			
	«Exceptions to US TSCA PBT Rules » ・ Regulated substances, products or articles containing regulated substances, which have already been sold to end-consumers (such as secondhand articles and donations to charity) ・ Disposal of regulated substances, products or articles containing regulated substances ・ Production, treatment, distribution in commerce and use of regulated substances, products or articles containing regulated substances for research and development purposes ・ Processing and distribution in commerce of “hydraulic fluids that meet specifications and requirements of the Defense Department”, “lubricants and greases”, “new and replacement parts for aerospace vehicles and automobiles”, etc.; plastic containing recycled PIP(3:1); and products and articles using plastic that contains recycled PIP(3:1), etc. (Note) Only the exceptions related with Olympus Group products are listed above. (Note) Items other than “FDA-registered medical devices” described above.			
Note	*1 US TSCA PBT Rules *2 US TSCA 40 CFR Part 751 [EPA-HQ-OPPT-2021-0598; FRL-6015.6-02-OCSPP]			

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
リン酸トリス(イソプロピルフェニル) PIP (3:1)	Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)	Unspecified	68937-41-7

(3) Principal uses for substances

Part	Purpose
Polyvinyl chloride (PVC)	Flame-retardant plasticizers

Table 2-I-34 2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)

(1) Details

No. I-34	Substance Group: 2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	・All applications, excluding articles	-Intentional inclusion prohibited	*1
Exemption	«FDA-registered medical devices»			

	The following Official Journal is applicable. TSCA: CHAPTER 53—TOXIC SUBSTANCES CONTROL SUBCHAPTER I—CONTROL OF TOXIC SUBSTANCES Sec. 2602. Definitions. (2)(vi) (https://www.govinfo.gov/content/pkg/USCODE-2018-title15/pdf/USCODE-2018-title15-chap53.pdf) (Note) FDA-registered medical devices are not subject to TSCA but Olympus may require suppliers to report the contents of these substances so that Olympus can confirm the exemptions are applied.
	«Exceptions to US TSCA PBT Rules » ・ Regulated substances, products or articles containing regulated substances, which have already been sold to end-consumers (such as secondhand articles and donations to charity) ・ Disposal of regulated substances, products or articles containing regulated substances ・ Production, treatment, distribution in commerce and use of regulated substances, products or articles containing regulated substances for research and development purposes (Note) Items other than "FDA-registered medical devices" described above
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act. US TSCA PBT Rules

(2) Regulated substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
2,4,6-トリ-tert-ブチルフェノール (2,4,6-TTBP)	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	C18H30O	732-26-3

(3) Principal uses for substances

Part	Purpose
Lubricants	Additives

Table 2-I-35 Long-chain perfluorocarboxylic acids (LC-PFCAs (C9-C21)) and their salts, and LC-PFCAs related substances

(1) Details

No. I-35	Long-chain perfluorocarboxylic acids (LC-PFCAs (C9-C21)) and their salts, and LC-PFCAs related substances			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 1	Immediate	-All applications (Except for the following applications)	- Less than 25 ppb for the sum of C9-C14 PFCAs and their salts - Less than the concentration of 260 ppb for the sum of C9-C14 PFCA-related substances	*1
		-Semiconductors on their own, -Semiconductors incorporated in semi-finished and finished electronic equipment.		
		-Fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.	- The concentration of 2,000 ppb or below for the sum of C9-C14 PFCAs until February 25, 2024 - The concentration of 100 ppb or below for the sum of C9-C14 PFCAs from February 26, 2024	
		-Invasive and implantable medical devices	- Less than 25 ppb for the sum of C9-C14 PFCAs and their salts - Less than the concentration of 260 ppb for the sum of C9-C14 PFCA-	

			related substances	
Level 2	June 6, 2026	-All uses	- Not intentionally included	*2
Exemption	*1：EU REACH reglation AnnexXVII (restriction) -C9-C14 PFCAs, their salts and related substances in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders. (The concentration of 1,000 ppb or below) *2：Stockholm Convention (POPs Convention) Annex A - Semiconductors designed for replacement parts (expires at the end of their useful life or December 31, 2041, whichever comes first)			
Note	*1：EU REACH reglation AnnexXVII (restriction) - *2：Stockholm Convention (POPs Convention) Annex A - Each contracting party will establish and enforce new laws and regulations for products by December 16, 2026, when the designation in Annex A of the Stockholm Convention will come into effect. Therefore, control values, exemptions, delivery ban dates, etc. will need to comply with the laws and regulations enforced by each contracting party.			

(2) Examples of substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
ヘプタデカフルオロノナン酸(PFNA)	Heptadecafluorononanoic acid	C9HF17O2	375-95-1
パーフルオロデカン酸(PFDA)	Nonadecafluorodecanoic acid	C10HF19O2	335-76-2
パーフルオロウンデカン酸(PFUnDA)	Henicosafluoroundecanoic acid	C11HF21O2	2058-94-8
パーフルオロドデカン酸(PFDoDA)	Tricosafluorododecanoic acid	C12HF23O2	307-55-1
パーフルオロトリデカン酸(PFTrDA)	Pentacosafluorotridecanoic acid	C13HF25O2	72629-94-8
パーフルオロテトラデカン酸(PFTDA, PFTeDA)	Heptacosafluorotetradecanoic acid	C14HF27O2	376-06-7
パーフルオロペンタデカン酸(PFPeDA)	Perfluoropentadecanoic acid	C15HF29O2	141074-63-7
パーフルオロヘキサデカン酸(PFHxDA)	Perfluorohexadecanoic acid	C16HF31O2	67905-19-5
パーフルオロヘプタデカン酸(PFHpDA)	Perfluoroheptadecanoic acid	C17HF33O2	57475-95-3
パーフルオロオクタデカン酸(PFODA, PFOcDA)	Perfluorooctadecanoic acid	C18HF35O2	16517-11-6
ヘプタトリアコンタフルオロノナデカン酸(PFNDA)	Perfluorononadecanoic acid	C19HF37O2	133921-38-7
ノナトリアコンタフルオロイコサン酸(C20 PFCA)	Nonatriacontafluoroicosanoic acid	C20HF39O2	68310-12-3
C21 PFCA	Perfluoroheneicosanoic acid	C21HF41O2	2920913-30-8

Notes: This table lists only C9-C21 PFCAs. For information on these salts and related substances of C9-C21 PFCAs, please see the following URL:

*1：EU REACH reglation AnnexXVII (restriction)

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv%3AOJ.L_.2021.282.01.0029.01.ENG&toc=OJ%3AL%3A2021%3A282%3ATOC

*2 : Stockholm Convention (POPs Convention) Annex A
https://www.pops.int/TheConvention/POPsReviewCommittee/Meetings/POPRC20/Overview/tabid/9850/ctl/Download/mid/27611/Default.aspx?id=17&ObjID=34304

(3) Principal uses for substances

Part	Purpose
Fluororesin / rubber, coating agents, industrial detergents, semiconductor manufacturing process	Additives, surfactants, Fluoropolymer processing aid

Table 2-I-36 Perfluorohexanoic acid (PFHxS) and its salts and PFHxS related substances

(1) Details

No. I-36	Perfluorohexanoic acid (PFHxS) and its salts and PFHxS related substances			
Prohibition Level	Date of ban on delivery*1	Applications	Control Value	Note
Level 1	Immediate	Chemicals	-Do not contain	*1
		Chemicals,Articles	-PFHxS and its salts: less than 25ppb -PFHxS related substances: less than 1,000ppb	*2
		-Etching agents used for metal processing -Surface treatment agents for plating or their preparation additives -Fabric treated to provide water-repellent or oil-repellent properties -Clothing that has been treated to provide water-repellent or oil-repellent properties -Floor coverings treated to provide water-repellent or oil-repellent properties -Water repellent agent/oil repellent agent and fiber protectant -Anti-reflective agents used in semiconductor manufacturing -Etching agents used in semiconductor manufacturing -Resist for semiconductors	-Do not export containing products to Japan.	*1
Exemption	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act: If it is contained as a by-product, it will not be treated as a Class 1 Specified Chemical Substance if BAT has been reported to the Japanese government agency. https://www.meti.go.jp/policy/chemical_management/kasinhou/about/class1specified_history.html			
Note	*1 Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act *2 Annex I to EU POPs Regulation (EU)2019/1021			

(2) Examples of substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN

パーフルオロヘキサン－１－スルホン酸	Perfluorohexane-1-sulphonic acid	C6HF13O3S	355-46-4
ベンジル（トリフェニル）ホスホニウム＝トリデカフルオロヘキサン－１－スルホナート	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate（1:1）	C31H22F13O3PS	1000597-52-3
テトラブチルアンモニウム＝トリデカフルオロヘキサン－１－スルホナート	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	C22H36F13NO3S	108427-54-9
テトラエチルアンモニウム＝トリデカフルオロヘキサン－１－スルホナート	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate	C14H20F13NO3S	108427-55-0
ピロリジンとトリデカフルオロヘキサン－１－スルホン酸の化合物（１：１）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine（1:1）	C4H9N.C6HF13O3S	1187817-57-7
（４－｛［４－（ジエチルアミノ）フェニル］［４－（エチルアミノ）－１－ナフチル］メチリデン｝シクロヘキサー２，５－ジエン－１－イリデン）（ジエチル）アンモニウム＝トリデカフルオロヘキサン－１－スルホナート	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate（1:1）	C39H40F13N3O3S	1310480-24-0
（４－｛［４－（ジメチルアミノ）フェニル］［４－（エチルアミノ）－１－ナフチル］メチリデン｝シクロヘキサー２，５－ジエン－１－イリデン）（ジメチル）アンモニウム＝トリデカフルオロヘキサン－１－スルホナート	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate（1:1）	C35H32F13N3O3S	1310480-27-3
（４－｛（４－アニリノ－１－ナフチル）［４－（ジメチルアミノ）フェニル］メチリデン｝シクロヘキサー２，５－ジエン－１－イリデン）（ジメチル）アンモニウム＝トリデカフルオロヘキサン－１－スルホナート	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate（1:1）	C39H32F13N3O3S	1310480-28-4

β－シクロデキストリンとトリデカフルオロヘキサン－１－スルホナートの化合物（１：１）	Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)	C42H70O35.C6F13O3S	1329995-45-0
γ－シクロデキストリン＝モノ（１，１，２，２，３，３，４，４，５，５，６，６，６－トリデカフルオロヘキサン－１－スルホナート）	Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)	C48H80O40.C6F13O3S	1329995-69-8
トリフェニルスルホニウム＝トリデカフルオロヘキサン－１－スルホナート	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C24H15F13O3S2	144116-10-9
１－（カルボキシメチル）－４－（２－｛４－［４－（２，２－ジフェニルビニル）フェニル］－１，２，３，３ａ，４，８ｂ－ヘキサヒドロシクロペンタ［ｂ］インドール－７－イル｝ビニル）キノリン－１－イウム＝トリデカフルオロヘキサン－１－スルホナート	Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C50H37F13N2O5S	1462414-59-0
ジフェニルヨードニウム＝トリデカフルオロヘキサン－１－スルホナート	Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C18H10F13IO3S	153443-35-7
テトラメチルアンモニウム＝トリデカフルオロヘキサン－１－スルホナート	Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)	C10H12F13NO3S	189274-31-5
２－メチルプロパン－２－アミンとトリデカフルオロヘキサン－１－スルホン酸の化合物（１：１）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)	C4H11N.C6HF13O3S	202189-84-2
ビス（４－ｔｅｒｔ－ブチルフェニル）ヨードニウム＝トリデカフルオロヘキサン－１－スルホナート	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C26H26F13IO3S	213740-81-9

ガリウム＝トリス（トリデカフルオロヘキサン－１－スルホナート）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)	C18F39GaO9S3	341035-71-0
フェニル（ジーｐ－トリル）スルホニウム＝トリデカフルオロヘキサン－１－スルホナート	Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C26H19F13O3S2	341548-85-4
スカンジウム＝トリス（トリデカフルオロヘキサン－１－スルホナート）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium (3+) salt (3:1)	C18F39O9S3Sc	350836-93-0
カリウム＝１，１，２，２，３，３，４，４，５，５，６，６，６－トリデカフルオロヘキサン－１－スルホナート	Potassium perfluorohexane-1-sulphonate	C6F13KO3S	3871-99-6
ネオジム＝トリス（トリデカフルオロヘキサン－１－スルホナート）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)	C18F39NdO9S3	41184-65-0
イットリウム＝トリス（トリデカフルオロヘキサン－１－スルホナート）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)	C18F39O9S3Y	41242-12-0
Ｓ，Ｓ，Ｓ’，Ｓ’－テトラフェニル［スルファンジイルビス（４，１－フェニレン）］ビス（スルホニウム）＝ビス（トリデカフルオロヘキサン－１－スルホナート）	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)	C48H28F26O6S5	421555-73-9
ビス（４－ｔｅｒｔ－ペンチルフェニル）ヨードニウム＝トリデカフルオロ－１－ヘキサンスルホナート	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic	C28H30F13IO3S	421555-74-0
トリス（４－ｔｅｒｔ－ブチルフェニル）スルホニウム＝トリデカフルオロヘキサン－１－スルホナート	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C36H39F13O3S2	425670-70-8
リチウム＝１，１，２，２，３，３，４，４，５，５，６，６，６	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)	C6F13LiO3S	55120-77-9

－トリデカフルオロヘキサン－１－スルホナート			
アンモニウム＝トリデカフルオロヘキサン－１－スルホナート	Ammonium perfluorohexane-1-sulphonate	C6H4F13NO3S	68259-08-5
亜鉛＝ビス（トリデカフルオロヘキサン－１－スルホナート）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt	C12F26O6S2Zn	70136-72-0
トリデカフルオロヘキサン－１－スルホン酸と２，２’－イミノジエタノールの化合物（１：１）	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	C6HF13O3S.C4H11NO2	70225-16-0
トリデカフルオロヘキサン－１－スルホン酸とトリエチルアミンの化合物（１：１）	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	C6HF13O3S.C6H15N	72033-41-1
ナトリウム＝１，１，２，２，３，３，４，４，５，５，６，６，６－トリデカフルオロヘキサン－１－スルホナート	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt	C6F13NaO3S	82382-12-5
ビス（ｔｅｒｔ－ブチルフェニル）ヨードニウム＝トリデカフルオロヘキサン－１－スルホナート	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI)	C26H26F13IO3S	866621-50-3
ジフェニル（ｐ－トリル）スルホニウム＝トリデカフルオロヘキサン－１－スルホナート	Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C25H17F13O3S2	910606-39-2
［４－（メタクリロイルオキシ）フェニル］（ジフェニル）スルホニウム＝トリデカフルオロヘキサン－１－スルホナート	Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C28H19F13O5S2	911027-68-4
２－エチル－２－アダマンチル＝メタクリラート・３－ヒドロキシ－１－アダマンチル＝メタクリラート・［４－（メタクリロイルオキシ）フェニル］（ジフェニル）スルホニウム＝トリデカフルオロヘキサン－１－スルホナート・２－オキソオキソラン－３－イル＝メタクリラート重合物	Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	(C16H24O2.C14H20O3.C28H19F13O5S2.C8H10O4.)x	911027-69-5

セシウム＝トリデカフルオロヘキサン－１－スルホナート	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1)	C6CsF13O3S	92011-17-1
１９－（４－ｔｅｒｔ－ブチルフェニル）－４ａ，６，７，９，１０，１２，１３，１９ａ－オクタヒドロジベンゾ［ｋ，ｎ］［１，４，７，１０，１３］テトラオキサチアシクロペンタデシン－１９－イウム＝トリデカフルオロヘキサン－１－スルホナート	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	C34H35F13O7S2	928049-42-7
パーフルオロアルカンスルホン酸カリウム塩	Sulfonic acids,C6-12-alkane,perfluoro,potassium salts	CnF2n+1-SO3K(n=6-12)	69391-09-3
パーフルオロアルカンスルホン酸	Sulfonic acids,C6-12-alkane,perfluoro	CnF2n+1-SO3H(n=6-12)	93572-72-6
２－｛エチル［（トリデカフルオロヘキシル）スルホニル］アミノ｝エチル＝アクリラート	2-[ethyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate;2-Propenoic acid, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	C13H12F13NO4S	1893-52-3

(3) Principal uses for substances

Part	Purpose
Water-forming foam fire extinguishing agents, metal plating, coatings, textiles, leather goods and upholstery	Lubrication, polishing, cleaning and protection from moisture, fungi, etc.

Table 2-I-37 UV-328

(1) Details

No. I-37	UV-328			
Prohibition Level	Date of ban on delivery*1	Applications	Control Value	Note
Level 1	Immediate	・Substances, compounds	・Not contained	*1
		・Articles	・Import ban on government-designated products	*1
		・All uses	・Not contained	*2
		・All uses	・100 mg/kg (0,01 wt%) or less	*3
		・All uses	・Not intentionally included	*4,*5,*6
Level 2	Feb. 4, 2027	・All uses	・10 mg/kg (0,001 wt%) or less	*3
	Feb. 4, 2029	・All uses	・1 mg/kg (0,0001 wt%) or less	*3
Exemption	*1：Chemical Substances Control Law: Class 1 Specified Chemical Substances - Substances and compounds used in medical devices and in the manufacture of medical devices are not subject to regulation - If a substance or compound contains a by-product, it is not treated as a Class 1 Specified Chemical Substance if it has been reported to BAT			

	https://www.meti.go.jp/policy/chemical_management/kasinhou/about/class1specified_history.html -Government ordinance designated products: lubricants, additives for formulations that impart UV absorption to resins, paints, varnishes, adhesives, tapes, sealant fillers *2 : Environmental Protection and Management Act 1999 *3: EU POPs Regulation (1) New use after August 4, 2025 - Triacetylcellulose film (TAC film) for polarizers: Until August 4, 2030 (2) Spare parts for products already on the market before August 4, 2025 - Liquid crystal displays in equipment for non-medical analysis, measurement, control, monitoring, testing, production, and inspection: Until the end of the product's useful life or December 31, 2043, whichever comes first - Liquid crystal displays in equipment specified in the EU MDR ((EU)2017/745): Until the end of the product's useful life *4: Australia IChEMR - Medical devices and components of medical devices (chemicals and articles (including spare parts)) are not included *5: New Zealand Hazardous Substances and New Organisms Act 1996 (1) New use after March 14, 2025 - Triacetyl cellulose film (TAC film) for polarizing plates: Until February 25, 2030 (2) Spare parts for products already on the market before August 4, 2025 - Liquid crystal displays in equipment for non-medical analysis, measurement, control, monitoring, testing, manufacturing, and inspection: Until the end of their useful life or December 31, 2043, whichever comes first - Liquid crystal displays in medical devices: Until the end of the product's useful life *6: Switzerland ORRchem - Products and spare parts that have been cleared in Switzerland, the EU, or the EFTA before January 1, 2026 - Cellulose triacetate film for polarizing plates and molded articles containing such polarizing plates: Until February 25, 2030
Note	*1 : Chemical Substances Control Law: Class 1 Specified Chemical Substances *2 : Environmental Protection and Management Act 1999 *3: EU POPs Regulation *4: Australia IChEMR *5: New Zealand Hazardous Substances and New Organisms Act 1996 *6: Switzerland ORRchem

(2) Examples of substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
UV-328	UV-328	C22H29N3O	25973-55-1

(3) Principal uses for substances

Part	Purpose
Automotive, outdoor furniture, building materials, food packaging (non-food contact layers), plastic and rubber additives for wood products, printing inks, leather and textiles, cosmetics	Benzotriazole UV absorbers

Table 2-I-38 Medium Chain Chlorinated Paraffins (MCCP)

(1) Details

No. I-37	Subject Group: Medium Chain Chlorinated Paraffins (MCCP)			
Prohibition Level	Date of ban on delivery	Applications	Control Value	Note
Level 2	June 16, 2026	-Substance -Mixture	The total concentration of the following chloroalkanes with carbon numbers from 14 to 17 in the substance or mixture must not exceed 3 wt% -C14H(30-y)Cly/y: 5 or more -C15H(32-y)Cly/y: 5 or more -C16H(34-y)Cly/y: 6 or more -C17H(36-y)Cly/y: 6 or more	*1
		-Article	・Not intentionally included	*1
Exemption	*1: Stockholm Convention (POPs Convention) Annex A - The exemption period is five years from the effective date (December 16, 2026) (unless otherwise specified). - PVC: Wire and cable used in medical devices (expires December 31, 2036). - Metalworking fluid: Electrical and electronic equipment used in medical devices, non-electrical and electronic medical devices. - Polymers and rubber used in repair and replacement parts: Electrical and electronic equipment used in medical devices (expires until the end of their useful life or December 31, 2041, whichever comes first).			
Note	*1: Stockholm Convention (POPs Convention) - By December 16, 2026, when Annex A of the Stockholm Convention comes into effect, each contracting party will enact and implement new product regulations. Therefore, control values, exemptions, and delivery ban dates must comply with the laws and regulations enacted by each contracting party.			

(2) Examples of substances

Substance (Japanese)	Substance (English)	Chemical formula	CAS No or JAMP-SN
クロロアルカン(C=14～17)	Chloroalkanes(C=14-17)	-	85535-85-9
クロロアルカン(C=16～35)	Chloroalkanes(C=16-35)	-	85049-26-9

Note: The above table only lists the main substances in the MCCP. For example substances, please refer to the Group members published by EU ECHA (see below URL).

https://echa.europa.eu/registry-of-restriction-intentions/-/dislist/details/0b0236e18682f8e1

(3) Principal uses for substances

Part	Purpose
Flame-retardant resin materials, lubricants, cutting oils, paints, adhesives	Flame-retardant resin raw materials, lubricants, plasticizers, etc.

Table 3 Criteria for managing controlled substances

Table 3-II-1 Candidate List of Substances of Very High Concern in REACH (SVHC)

No. II-1	Substance Group: Candidate List of Substances of Very High Concern in REACH (SVHC)		
Applications		Control Values	Note
・All applications		- 1000ppm	*1
Note	*1 The candidate list of substances of very high concern in REACH (SVHC) will be periodically updated. Please refer to the website of the European Chemicals Agency (ECHA). (https://www.echa.europa.eu/candidate-list-table)		

Table 3-II-2 Substances subject to the European Union's Medical Device Regulation (EU-MDR) or In Vitro Diagnostic Medical Device Regulation (EU-IVDR)

No. II-2	Substance group: Substances subject to the European Union's Medical Device Regulation (EU-MDR) or In Vitro Diagnostic Medical Device Regulation (EU-IVDR)		
Applicable regulation	Applications	Control Values	Note
The European Union's Medical Device Regulation (EU-MDR)	Devices, or those parts thereof or those materials used therein that: - Are invasive and come into direct contact with the human body, - (re)administer medicines, body fluids or other substances, including gases, to or from the body, or, - transport or store such medicines, body fluids or substances, including gases, to be (re)administered to the body.	- 1000ppm *2	*1
The European Union's In Vitro Diagnostic Medical Device Regulation (EU-IVDR)	Components and subsidiary materials that come into direct or indirect contact with the patient		
Note	*1: The substances subject to EU-MDR or EU-IVDR are defined in items (1) and (2) below. Substances in item (3) may be added to this substance group in the future. Please refer to EU 2017/745 at Annex I, 10.4.1 (b) for details. (1) Category 1A/1B substances that are carcinogenic, mutagenic or toxic to reproduction, listed in Table 3.1 of Annex VI to the CLP regulation, List of harmonized classification and labelling of hazardous substances. Please refer to the following website for the table. (https://echa.europa.eu/information-on-chemicals/annex-vi-to-clp) (2) Substances that are on the candidate list of Substances of Very High Concern in REACH (SVHC), and have endocrine disrupting effects on humans. The candidate list of SVHC will be periodically updated. Please refer to the website of the European Chemicals Agency (ECHA). (https://www.echa.europa.eu/candidate-list-table) (3) BPR substances BPR Regulation (Regulation (EU) No 528/2012 o) (https://echa.europa.eu/guidance-documents/guidance-on-biocides-legislation) *2: Regarding surface treatment coatings, the concentration of a substance in an article (not in the coating) may be used as its control value.		

Table 3-II-3 Perfluoroalkyl and polyfluoroalkyl substances (PFAS)

No. II-3	Substance group: Perfluoroalkyl and polyfluoroalkyl substances (PFAS)		
Applicable regulation	Applications	Control Values	Note
H.P. 1113 - L.D. 1503 An Act To Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution (U.S.Maine state)	All products used intentionally Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	-Intentional inclusion prohibited	*1
Note	*1 Please refer to the following U.S. Maine state's website for the details of "H.P. 1113 - L.D. 1503 An Act To Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution (U.S. Maine state)". (https://www.maine.gov/dep/spills/topics/pfas/index.html) Please refer to the following EPA's web site to identify the PFAS regulated. (https://comptox.epa.gov/dashboard/chemical-lists/pfasmaster)		

Table 3-II-4 Mineral Oil

No. II-4	Mineral Oil		
Applicable regulation	Applications	Control Values	Note
France : Article 112 of Law No. 2020-105(1) of February 10, 2020 on the fight against waste and the circular economy	Mineral oil contained in the ink used in packaging materials	Mineral oil aromatic hydrocarbons (MOAH) with 1 to 7 aromatic rings - Mass concentration in ink is 1,000 ppm or less - Mass concentration in ink of compounds with 3 to 7 aromatic rings is 1 ppm or less Mineral oil saturated hydrocarbons (MOSH) with 16 to 35 carbon atoms - Mass concentration in ink is 1,000 ppm or less	*1
Note	*1 For more information on Article 112 of Law No. 2020-105(1) of 10 February 2020, on the fight against waste and the circular economy, please see the French government website; https://www.legifrance.gouv.fr/loda/id/JORFTEXT000041553759/ For mineral oil restrictions in packaging materials, see the following codes; https://www.legifrance.gouv.fr/codes/article_lc/LEGIARTI000042932902 For information on regulated mineral oils, please refer to the following ministerial ordinance; https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000045733481		

5. Major Revisions

Ver.	Date	Article	Contents and reason for revisions
20	2026.04.01	Table 1	- Revised I-24, "Perfluorooctane sulfonates (PFOS) and PFOS-related compounds" to "Perfluorooctane sulfonates (PFOS), their salts, and PFOS-related compounds." - Revised I-35, "Perfluorocarboxylic acids with carbon numbers of 9 to 14 (C9-C14 PFCAs) and their salts, and C9-C14 PFCAs related substances" to "Long-chain perfluorocarboxylic acids (LC-PFCAs (C9-C21)) and their salts, and LC-PFCAs related substances." - Added I-38, "Medium-chain chlorinated paraffins (MCCP)."
		Table 2-I-1	- Add “(EU)2015/863 Annex II” to the Note section *3.
		Table 2-I-2	- Corrected descriptions of applicable uses, control values, and notes (deleted regulatory content unrelated to OLYMPUS products) - Add “(EU)2015/863 Annex II” to the Note section *3.
		Table 2-I-3	- Add “(EU)2015/863 Annex II” to the Note section *4.
		Table 2-I-4	- Add “(EU)2015/863 Annex II” to the Note section *3.
		Table 2-I-8	- Corrected the description of applicable uses (deleted uses unrelated to OLYMPUS products)
		Table 2-I-9	- Corrected the description of applicable uses (deleted uses unrelated to OLYMPUS products) - Add “(EU)2015/863 Annex II” to the Note section *1. - The *2 in the Note section has been corrected to “EU REACH Regulation (EC) No 1907/2006 Annex XVII”.
		Table 2-I-10	- Add “(EU)2015/863 Annex II” to the Note section *1. - *2 The control value under the EU POPs Regulation has been revised from 500 ppm to 10 ppm, and the contents of the Federal Register have been added as an exemption. - Add "(EU) 2019/1021 Annex I" to the *2 in the Exemption and Note sections. - *4 A new number has been added to the notes section regarding the US TSCA PBT Rules.
		Table 2-I-17	- Corrected the unit of control value to "wt%"
		Table 2-I-20	- Adds the regulatory content of Australia IChEMR, New Zealand Hazardous Substances and New Organisms Act 1996, Switzerland ORRchem, and EU POPs Regulations
		Table 2-I-22	- Corrected the description of applicable uses (deleted uses unrelated to OLYMPUS products)
		Table 2-I-24	- Revised the substance name in the title to "Perfluorooctane sulfonic acid (PFOS), its salts, and PFOS-related compounds."

			- Revised the regulations under the Chemical Substances Control Law. - Revised the regulations under the EU POPs Regulations (EU) 2019/1021 Annex I. - Add “(EU) 2019/1021 Annex I” to the Note section *2. - Added the Canadian Environmental Protection Act (CEPA 1999 SOR).
		Table 2-I-26	- Level 2 ban applications have been revised to Level 1 ban applications, and the delivery ban date has been revised from February 6, 2026, to immediate effect. - Deleted the following restrictions: German Chemicals Prohibition Ordinance, Danish Formaldehyde Regulation, US California CARB Regulation, US TSCA, Australia BGB-I-1990/194, and Lithuanian Hygiene Standards (deleted restrictions unrelated to OLYMPUS products). - Revised note numbering.
		Table 2-I-31	- The term "for the general public" has been removed from the content of the control values, and a new exemption column has been added with the addition of "This regulation does not apply when supplied to parties other than the general public."
		Table 2-I-35	- Revised the title from "Perfluorocarboxylic acids with carbon numbers 9 to 14 (C9-C14 PFCAs) and their salts, and C9-C14 PFCAs-related substances" to "Long-chain perfluorocarboxylic acids (LC-PFCAs (C9-C21)) and their salts, and LC-PFCAs-related substances." - Revised the note regarding the EU REACH Regulation. - Added information on the Stockholm Convention (POPs Convention).
		Table 2-I-37	- Adds the regulatory content of Australia IChEMR, New Zealand Hazardous Substances and New Organisms Act 1996, Switzerland ORRchem, and EU POPs Regulations
		Table 2-I-38	-Added "Medium-chain chlorinated paraffins (MCCP)" according to Annex A of the Stockholm Convention (POPs Convention).
19	2025.04.01	Table 1	-Added "Dechlorane Plus" as I-20 -Deleted "Specific CMR substances" as I-32 -Added "UV-328" as I-37 -Revised numbering due to addition of I-20 and 37 and deletion of I-32
		Table 1 (Note)	-Deleted text related to "certain CMR substances" -Changed table numbers in TSCA-related notes from I-33 to I-34 and I-34 to I-35
		Table 2-I-1,3,4	Added the EU Battery Regulation((EU)2023/1542)
		Table 2-I-3	The ban level for articles made from "polymer or copolymer of vinyl chloride (PVC)" for applicable use was revised from level 2 to level 1, and the delivery ban date was revised from May 28, 2024

			to immediate effect.
		Table 2-I-20	Added "Dechlorane Plus" and its regulations under Japan's Chemical Substances Control Law and Singapore's Environmental Protection and Management Act 1999.
		Table 2-I-20~31	Due to the addition of "Dechlorane Plus", the numbers have been changed from 20 to 31 to 21 to 32.
		Table 2-I-30	The ban level for the target substances and applicable uses "«PFOA and its salts and PFOA-related substances» substances or mixtures, articles (invasive and implantable medical devices only)" was revised from 2 to 1, and the delivery ban date was revised from January 4, 2025 to immediate effect.
		Table 2-I-32	Delete "certain CMR substances"
		Table 2-I-33	-Revised the ban level for the applicable use "molded articles" from 2 to 1, and revised the delivery ban date from April 30, 2024 to immediate. -Revised the ban level for the applicable use "adhesives and sealants" from 2 to 1, and revised the delivery ban date from July 6, 2024 to immediate.
		Table 2-I-35	The ban level for the applicable use of "invasive medical devices and implantable medical devices" has been revised from level 2 to level 1, and the ban date for use has been revised from January 5, 2025 to immediate effect.
		Table 2-I-37	Added "UV-328" and its regulations under Japan's Chemical Substances Control Law and Singapore's Environmental Protection and Management Act 1999.
		Table 3-II-4	Added "mineral oils" as regulated by French law
18	2024.04.01	Table 1	Modified I-28 phthalates (BBP, DBP, DEHP, DIDP, DINP, DNOP, DIBP) to phthalates (BBP, DBP, DEHP, DIBP)
		Table 1 (Note)	-In the note regarding “Certain CMR substances”, “I-31” was corrected to “I-32”. -In the note regarding “TSCA PBT”,”I-10” and “Table 2-I-10” were added.
		Table 2-I-1,2,3,4,9,28,29,33,35	"The date of ban on delivery is set as the date six months before the effective date of an applicable law or regulation." was deleted from the note, which overlaps with the content of Article 3 Terms and Definitions, Paragraph 15.
		Table 2-I-3	Addition of regulations regarding “Lead in PVC” according to REACH Annex XVII.
		Table 2-I-25	Addition of regulations regarding “Formaldehyde” according to REACH Annex XVII
		Table 2-I-28	-Corrected phthalate esters (BBP, DBP, DEHP, DIDP, DINP, DNOP, DIBP) to phthalate esters (BBP, DBP, DEHP, DIBP). - Deleted content related to the U.S. Consumer

			Product Safety Improvement Act. - Deleted REACH Regulation Annex XVII (Restricted Substances) from Note *1
		Table 2-I-35	Prohibition Level, Date of ban on delivery, and Control value have been revised to the latest contents.
		Table 2-I-36	Added regulatory details for “Perfluorohexanoic acid (PFHxS) and its salts and PFHxS related substances”
17	2023.04.01	Table 2-I-19	“Hexachlorobenzene (HCB)” was added.
		From Table 2-I-20 To Table 2-I-35	Table Numbers ware revised because Table 2-I-19 "hexachlorobenzene (HCB)" was added.
		Table 2-I-35	“Date of ban on delivery”, and date described at “Control Value” cell was revised.
		Table 3-II-3	“Perfluoroalkyl and polyfluoroalkyl substances (PFAS)” was added.
16	2022.04.01	3	-“Substance” was added to “Terms and Definitions”.
		Table 2-I-28	-“Applications” and “Examples of (regulated) substances” were revised to clearly indicate substances and the regulations applicable to them.
		Table 2-I-31	-”Article” was added as applications, and their Prohibition Level” and “Date of ban on delivery”, “Control Value” was described. “CFR No” was added in the note.
		Table 2-I-34	-“Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances” was added.
15	2021.06.30	All pages	・The structure of articles and tables were reviewed.
		3	・ “Homogeneous materials” was added under “Terms and Definitions”. “Control content” was incorporated into “Control value”. ・“CMR substances” and “Effective date of an applicable law or regulation” were deleted.
		4	・The structure of this section was reviewed. The contents of the section were revised so as to best reflect the changes made to the terms and the definitions.
		Table 2-I-1	・ “Intentional inclusion prohibited” and “The following applications, other than *1 and *2” were deleted ・“Less than 100 ppm” according to RoHS Directive was replaced with “100 ppm or less”.
		Table 2-I-2	・ “Intentional inclusion prohibited” and “The following applications, other than *1, *2 and *3” were deleted ・ “Less than 1000 ppm” according to RoHS Directive was replaced with “1000 ppm or less”.
		Table 2-I-3	・ “Intentional inclusion prohibited” and “The following applications, other than *1, *2 and *3” were deleted ・ “Less than 1000 ppm” according to RoHS Directive was replaced with “1000 ppm or less”.

		Table 2-I-4	・“Intentional inclusion prohibited” and “The following applications, other than *1, *2 and *3” were deleted ・“Less than 1000 ppm” according to RoHS Directive was replaced with “1000 ppm or less”.
		Table 2-I-9	・“Intentional inclusion prohibited” and “The following applications, other than *1, *2 and *3” were deleted ・“Less than 1000 ppm” according to RoHS Directive was replaced with “1000 ppm or less”.
		Table 2-I-10	・“Intentional inclusion prohibited” and “The following applications, other than *1, *2 and *3” were deleted ・“Less than 1000ppm” according to RoHS Directive was replaced with “1000 ppm or less”. ・“US TSCA PBT Rules” was added to note *3, and *4 Exemption was also added to the table.
		Table 2-I-17	・Pentachlorothiophenol (PCTP) was added.
		Table 2-I-18	・Hexachlorobutadiene (HCBD) was added.
		Table 2-I-21	・The substances in this substance group were reviewed.
		Table 2-I-27	“Less than 1000 ppm” according to RoHS Directive was replaced with “1000 ppm or less”.
		Table 2-I-28	・“certain Long-Chain Perfluoroalkyl Carboxylates (LCPFAC)” was added. ・Regarding PFOA, changes were made in response to the publication of Official Journals about “Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act.” and “EU POPs regulation”. ・“Implantable medical devices*2, *5” was deleted from “Exemption”. ・Notes *6 and *7 were added.
		Table 2-I-30	・“EU POPs regulation” was added to note *1.
		Table 2-I-32	・Phenol, Isopropylated Phosphate (3:1) (PIP 3:1) was added.
		Table 2-I-33	・2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP) was added.
		Table 3-II-2	・BPR substances was added to note *1. Explanation of the control value of surface coatings was added to note *2.
14	2020.05.01	4.1	Table 1 Environment-related Substances “II-2: Substances subject to the European Union’s Medical Device Regulation (EU-MDR) or In Vitro Diagnostic Medical Device Regulation (EU-IVDR)” was added.
		4.2.3	Table 2-I-1 Cadmium and its compounds Table 2-I-2 Hexavalent chromium compounds Table 2-I-3 Lead and its compounds Table 2-I-4 Mercury and its compounds Table 2-I-9 Polybrominated biphenyl (PBBs) ・The applications that had been classified according to the RoHS Directive categories were

			unified as “Electric and electronic equipment subject to RoHS Directive (2011/65/EU)” because the RoHS Directive entered into force in all the categories on its effective date. ・“Electric and electronic equipment as provided by Article 2-2 of RoHS Directive (2011/65/EU)” was deleted to reflect the removal of Article 2-2 from the RoHS Directive. Table 2-I-10 Polybrominated diphenyl ethers (PBDEs) ・The applications were divided into “PBDEs excluding DecaBDE” and “DecaBDE only” because while PBDEs are regulated by the EU POPs regulation, only DecaBDE is controlled by Japanese Chemical Substances Control Act. Table 2-I-14 Substance Group: Short-chained chlorinated paraffin (having the chain length of 10 - 13) ・The control value is “Intentional inclusion prohibited” ,it is controlled by Japanese Chemical Substances Control Act. Table 4-I-24 Fluorinated Greenhouse Gases (PFC, SF6, HFC) ・Regarding the control on these substances, “EC No.842/2006” was repealed with the revision of “(EU) No. 517/2014”. Accordingly, Table 4-I-24 was updated with the addition of several substances. Table 2-I-26 Perfluorooctanoic acid (PFOA) and its salts and esters ・Level 1: “Norwegian Product Regulations” was deleted because the same level of control can be guaranteed by complying with other applicable laws and regulations. ・Level 2: The control by the REACH was replaced with the proposed control by the EU POPs regulation, which is set to be published.
		4.2.4	Table 5-II-2 “Substances subject to the European Union’s Medical Device Regulation (EU-MDR) or In Vitro Diagnostic Medical Device Regulation (EU-IVDR)” was added.
		5	Perfluorooctanoic acid (PFOA) and its salts and esters ・Some information in Table 2-I-26 was moved to Table 6-I-26 (where it is now provided as information on examples belonging to this substance group). ・“JAMP-SN0102” and “JAMP-SN0103” were added as substances belonging to this substance group. Short-chained chlorinated paraffin (having the

			carbon chain length of 10 - 13) ・Some information in Table 2-I-14 was moved to Table 6-I-14 (where it is now provided as information on examples belonging to this substance group). ・ To reflect regulatory information, some substances belonging to this substance group were added. Pentachlorophenol and its salts and esters ・ To reflect regulatory information, some substances belonging to this substance group were added. Table 6-I-2 Hexavalent chromium compounds ・Copper chromite (CAS NO.12053-18-8) was deleted because it's a trivalent chromium.
13	2018.03.31	3	3. Terms and Definitions ・"CMR substances" was added to explain the new prohibited substances. ・"RoHS2 Directive" was replaced with "RoHS Directive (2011/65/EU)" to clearly indicate the applicable regulation.
		4.1	Table 1 Environment-related Substances ・In keeping with the new regulation, "I-29 Certain CMR substances" was added. A note was also added to the table, in order to clearly indicate the applications of "I-29 Certain CMR substances."
		4.2.3	Table 2-I ・With regard to cadmium, hexavalent chromium, lead, mercury, PBB, PBDE and phthalate esters, the timing of the application of RoHS Directive was incorporated. Accordingly, cadmium, hexavalent chromium, lead, mercury, PBB, PBDE are categorized as Level 1, and phthalate esters as Level 2. ・With regard to cadmium, hexavalent chromium, lead, mercury, PBB, PBDE and phthalate esters, "RoHS2 Directive" was replaced with "RoHS Directive (2011/65/EU)" to clearly indicate the applicable regulation. ・ In Europe, all the information contained in Annex B, except for "Date of ban on delivery," is public information. Therefore, regarding cadmium, hexavalent chromium, lead and mercury, "Annex B" was deleted from the "Exemption," and "Exclusions from RoHS Directive: 6 months prior to expiration" was added to "Date of ban on delivery." Table 2-I-2 (Hexavalent chromium compounds) ・The timing of the application of the REACH regulation to Level-2 substances was incorporated, and the prohibition level was changed to Level 1. Table 2-I-25 (Phthalate esters)

			・Regarding "the restriction of plasticized material that includes DEHP, BBP, DBP and/or DIBP," which are four substances newly added to Annex XVII to REACH (restriction), their effective dates of REACH regulation, dates of ban on delivery, applications and control values were added to the Level-2 boxes. Additional information was also provided in "Exemption" and "Note." ・Table 2-I-29 (Certain CMR substances) This new table was created in keeping with the addition of "Certain CMR substances" to Annex XVII to REACH (restriction).
		5	"Table 6-I-29 Certain CMR substances" was added to provide examples of arsenic compounds among certain CMR substances. The sentence of "The table below does not cover all the substances in this substance group" was added to Tables 6-I-1 - 6-I-29 to clearly indicate that these examples are provided for illustrative purposes only.
12	2018.06.01	4.1	Table 1 (Environment-related Substances) ・Table 1 I-28: "Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)" was deleted because these substances became exempt from the "Prohibition of Certain Toxic Substances Regulations, 2012" of Canada.
		4.2.3	Table 2-I ・With regard to cadmium, hexavalent chromium, lead, mercury, PBB and PBDE, the timing of the application of RoHS2 Directive was incorporated. Table 2-I-2 (Hexavalent chromium compounds) ・"Intentional inclusion prohibited" was deleted from the Control Value column for Level-1 electric and electronic equipment subject to RoHS2 Directive. ・Regarding the four Level-2 substances that will become subject to applicable regulations on January 22, 2019 (Annex XIV to REACH), their control value was changed to "Intentional inclusion prohibited." Table 2-I-10 (PBDEs) ・"Annex XVII to REACH (restriction)" was added. Table 2-I-12 (PCTs) ・"Intentional inclusion prohibited" was deleted from the Control Value column, and "mixture" was replaced with "mixture or finished product." Table 2-I-20 (PFOS and PFOS analogs) ・The Exemption row was deleted to reflect the review of exemption from "Class I Specified Chemical Substances designated by Japanese Chemical Substances Control Act." Table 2-I-26 (PFOA and its salts and esters) ・"Annex XVII to REACH (restriction)" was added. Table 2-I-28 (BNST) was deleted.

			Table 6-I-5 (Trisubstituted organotin compounds) ・"JAMP-SN0024" was added in the CAS No. or JAMP-SN column. Table 6-I-6 (Dibutyltin compounds) ・"JAMP-SN0072" was added in the CAS No. or JAMP-SN column. Table 6-I-7 (Dioctyltin compounds) ・"JAMP-SN0073" was added in the CAS No. or JAMP-SN column. Table 6-I-10 (PBDEs) ・In the Substance (Japanese) column, "PBDE 類" was spelled out as "ポリ臭化ジフェニルエーテル類" in keeping with the use of unabbreviated names for PBBs. Table 6-I-17 (Asbestos) ・"JAMP-SN0056" was added in the CAS No. or JAMP-SN column. Table 6-I-28 (BNST) was deleted because these substances became exempt from the "Prohibition of Certain Toxic Substances Regulations, 2012" of Canada.
11	2017.04.01	4.2.3	Table 2-I: With regard to cadmium, hexavalent chromium, lead, mercury, PBB and PBDE, incorporated the timing of the application of RoHS2 Directive. Table 2-I-2 (Hexavalent chromium compounds): The prohibition level of nine hexavalent chromium compounds was changed from 2 to 1. Table 2-I-13 (Polychlorinated naphthalene): The information on "2 chlorine atoms" was integrated with that on "3 or more chlorine atoms".
10	2016.04.04	4.1	・The number of chlorine atoms of polychlorinated naphthalene was changed from 3 or more to 2 or more. ・ "and its salts and esters" was added to perfluorooctanoic acid (PFOA), which was also added to the relevant parts in other pages. ・I-29: "Pentachlorophenol and its salts and esters" was added.
		4.3	In Table 2-I-13 (Polychlorinated naphthalene) , ・The number of chlorine atoms of polychlorinated naphthalene was changed from 3 or more to 2 or more. In Table 2-I-14 (Short-chained chlorinated paraffin), ・*1: (EC)No.850/2004 was added to EU POPs regulation ・*2: Norwegian Product Regulations was deleted. ・From the examples of substances listed in Table 6-1-14, only chlorinated paraffins (short chain) (number of carbon from 10 to 13) was added. In Table 2-I-16 (hexabromocyclododecane),

			・EU POPs regulation (EC)No.850/2004 was added to Note *1. In Table 2-I-25 (Phthalate esters), ・Categories" was deleted from the RoHS directive categories for level 2 applications. ・In Note *3, TBT notification was replaced with. (EU)2015/863. In Table 2-I-18 (BNST), ・Under Applications, description was changed to incorporate the exemption. ・In the note, the name of regulation was changed to Canadian Prohibition of Certain Toxic Substances Regulations, 2012. Table 2-I-29 (Pentachlorophenol) was added. In Table 3-I-19 (Ozone depleting substances), ・Under Chemical formula, chemical formula was added to a blank field. In Table 6-1-9 (PBBs), ・Under Chemical formula, chemical formula was added to a blank field. In Table 6-I-14 (Short-chained chlorinated paraffin), ・The examples of substances were removed and were incorporated into Table 2-I-14 as reference.
9	2015.06.05	3	Definition of terms: "preparation" was replaced with "mixture".
		4.1	Table 1, I-28: "Benzenamine, *N-phenyl-*, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)" was added.
		4.2.3	Table 2-I: With regard to cadmium, hexavalent chromium, lead, mercury, PBB, and PBDE, incorporated the timing of the adoption of RoHS2 Directive. Table 2-I-2: The regulation on leather products was added to hexavalent chromium. Table 2-I-6: The exemptions for dibutyltin compounds were removed. Table 2-I-25, Phthalate esters: Removed the Danish regulation, and addressed the official publication that has added prohibited substances to RoHS2. Table 2-I-28: "Benzenamine, *N-phenyl-*, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)" was added. REACH Regulation: Added SVHC as examples to the corresponding substance tables, and reviewed descriptions.
8	2014.02.20	4.1	Table 1: "I-26 Perfluorooctanoic acid (PFOA)" and "I-27 Polycyclic aromatic hydrocarbon (PAH)" were added.
		4.2.3	"In some cases, business units set their own dates on ban on delivery that are different from the ones

			herein. These dates set by business units take precedence over the ones herein" was added.
			Table 2: "Intentional use prohibited" was replaced with "intentional inclusion prohibited" in each table. "If the Control Value column lists "intentional inclusion prohibited" and the control value, both of these requirements must be fulfilled" was also added.
			"Intentional use prohibited" was deleted from Table 2 for cadmium, lead, dioctyltin, nickel, and azo compounds. The denominators as the standard for the control values were defined.
			In Table 2-I-16, Level 1 was established in accordance with Japanese Chemical Substances Control Act., and applicable substances were added.
			In Table 2-I-24, the applications of PFC were defined.
		2, 6	Tables 2 and 6 were revised in accordance with the JAMP－AIS format.
7	2013.09.05	4.2.3	In Table 2-I-6, "Intentional use prohibited" was deleted.
			In Table 2-I-18, date of ban on delivery at Level 2 was corrected.
6	2013.05.17	2	・The code for RoHS2 was corrected: 2010/65/EU ⇒ 2011/65/EU ・Substance names followed the spelling used by JAMP. ・Regarding the control on phthalate esters in Demark, it was difficult to impose a ban on delivery six months before the deadline of December 2013. Therefore, a date three months before was set as the date of the ban on delivery. As for products subject to RoHS2, a date 12 months before was set as the date of ban on delivery, mainly because of the amount of inventory on the market.
5	2012.06.12	3	The explanations on the terms (a), (b) and (c) under (1) Environment-related substances were repeated in Section 4.2.1. For this reason, these explanations were deleted from the Terms and Definitions section.
		3	(14) Intentionally added, (15) Impurities, (16) Preparation and (17) Article were added.
		4.1	Table 1 was reviewed and the following changes were made: (I) Prohibited substances TBTO was included into trisubstituted organotin compounds. Radioactive substances, acrylamide and musk xylene were deleted, and hexabromocyclododecane was added. (II) Controlled substances Antimony, arsenic, beryllium, bismuth, selenium, brominated flame retardants (except prohibited substances), perchlorates, phthalate esters (except

			prohibited substances) and PRTR substances were deleted.
		2.3	In Section 4.2.3, “Detailed information about the control of prohibited substances,” a separate table was made for each prohibited substance group. “Intentionally added” was added to the control value column. Prohibited substances were reviewed and their substance groups were renumbered.
		4.2.3	“I-19 Ozone depleting substances” were extracted from the examples and separately presented as Table 3.
		4.2.3	In Table 3, because the CAS number for Tribromodifluoroethane, 128903-21-9, was an error in writing, it was replaced with “-”.
		4.2.3	“I-24 Fluorinated greenhouse gasses (PFC, SF6, HFC)” were extracted from the examples and separately presented as Table 4.
		4.2.4	Section 4.2.4 on controlled substances was devoted to substances of very high concern in REACH (SVHC).
		5	Examples and principal uses were listed for each substance.
4	2011.07.22	All	・REACH Regulation Annex 16: Addressed 6 substances added to "Approved Substances" and 7 substances added to the "List of Candidate Substances for Approval". ・REACH Regulation Annex 17: Addressed additions to "Limited Substances", and confirmed/revised exemptions. ・Incorporated the latest information from JIG (Joint Industry Guidelines) Ver4.0 and JAMP. ・Revised description to make it easier to understand. Corrected table errors.
3	2011.03.04	2	Scope has been amended to “Olympus” and “These rules apply to domestic Olympus, OGZ, OSZ and OPI. Products manufactured and sold in other regions shall be subject to these rules” has been deleted.
			8 substances of Very High Concern have been added to Table 5 and Table 6.
2	2010.12.17	2	”Dibutyltin compounds (DBT), Dioctyltin compounds (DOT), Nickel, Dimethylfumarate (DMF), Fluorinated Greenhouse Gases (PFC, SF6, HFC), partial phthalate esters” have been added as “Prohibited substances”. “Perchlorates” has been added as “Controlled substances”. “Tributyltin (TBTs), Triphenyltin (TPTs)” has been amended to “Trisubstituted organotin compounds”.
		All	"Products used for sales promotion" has been added in 2.1 Applicable items.
			Exclusions from RoHS Directive was revised under Commission Decision 2009/425/EC.
			Table 6: Examples of environment-related substances was revised by reference to JIG-

			101Ed3.1
Versions before 2	December 2010: Revisions of REACH ANNEX 14 (candidate substances for approval) were accepted, "Hexabromocyclododecane (HBCDD)" and "Musk xylene" were newly added as "prohibited substances", and the prohibited usage and thresholds were reviewed for "Azo dyes and pigments (specific amines formed by degrading azo dies and pigments)" and "Phthalate esters". Revisions of REACH ANNEX 17 (limited substances) were accepted, and "Acrylamide" was made a "prohibited substance". August 2010: Examples of environment-related substances in Table 6 were revised by reference to JIG-101Ed3.1. This revision included the addition of substances and name changes. October 2009: "Formaldehyde" was classified as a "prohibited substance" according to the regulations of various countries as well as social needs. June 2009: Directive 76/769/EEC (on restrictions on the marketing and use of certain dangerous substances and preparations) was repealed with effect. Any amendment to the restrictions adopted under Directive 76/769/EEC from June 1, 2007 were incorporated in Annex XVII, EC 1907/2006. (Article 137, Article 139 of the REACH) October 2008: Following the publication of 15 Substances of Very High Concern that were added to the candidate list, additional substances were classified as "controlled substances." June 2008: The 30th amendment directive (2006/122/EC) concerning Directive 76/769/EEC (PFOS and PFOS analogs) came into effect. November 2007: Specific benzotriazole was designated as a Class I designated chemical substance pursuant to a partial amendment of Japanese Chemical Substances Control Act. August 2007: The Joint Industry Guidelines (JIG) came into force. Therefore, regarding the five substances that had been designated under the JGPSS, their designation was cancelled and deleted from the list of "prohibited substances." June 2007: The REACH came into force.		