

# Fujitsu Group Specified Chemical Substances List



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Fujitsu Limited

## Table of Contents

1. Banned Substances
Table 1: Banned Substances 3
Table 1a: Aromatic Amines formed from azo colorants and azo dyes 12
Table 1b: Ozone Depleting Substances······ 12
Table 1c: Polychlorinated Biphenyls (PCBs) and specific substitutes 17
Table 1d: Fluorinated Greenhouse Gases (HFC, PFC and SF6) 17
Table 1e: Exempted applications from the containment restriction
Table 1f: Polycyclic aromatic hydrocarbons (PAH) ······ 20
Table 1g: Missing number
Table 1h: Hexabromocyclododecane (HBCDD)20
Table 1i : Banned Standard of CMRs21
2. Reportable Substances
Table 2: Reportable Substances23
3. Control Substances
Table 3: Control Substances40
Table 3a: Brominated flame retardants (other than PBBs, PBDEs or HBCDD)··· 41
4. Prohibited Substances in manufacturing process
Table 4: Prohibited Substances in manufacturing process43

## [Definition of terms]

Containment : A chemical substance exists in Deliverables even if the substance exists as impurities or as a

result of addition, filling, mixing and production in the manufacturing process.

Concentration : Content rate of chemical substances

Its unit is used with [ppm] (parts per million by weight) or [wt%] (weight percent).

(In terms of concentration calculation methods, please refer to the notation of each table.)

Intentional addition : Deliberate use in the formulation of Deliverables where its presence is desired to provide a

> specific characteristic, appearance or quality regardless of concentration of the chemical substance. Adhesion, mixing and production of the substances in the manufacturing process

and impurities are not included in intentional addition.

: Homogeneous material which cannot be decomposed furthermore or composite material which Material

can be regarded as homogeneous in order to fulfill its specific function(s), for which it is set or

formed at particular position

Impurities : Substances that are contained in natural materials and cannot be eliminated during processes

in which they are manufactured into industrial sources

Preparation : A mixture or solution composed of two or more substances

(e.g. adhesives, plating solutions, coating materials)

Deliverables : Deliverables (material, components, units, accessories, etc.) equipped to Fujitsu Group's

products, or OEM/ODM products and packaging materials

Chemical product : Chemical substance and/or mixture

: A chemical element or compound that either exists in nature or is obtained through a Chemical Substance

manufacturing process

Mixture : A mixture intentionally comprising two or more chemical substances

Article : An item of specific shape, appearance or design created during manufacture which

substantially determines functions in final use rather than functions provided by its chemical

composition

equipment

Electrical and electronic : Equipment which is dependent on electric currents or electromagnetic fields in order to work properly and equipment for the generation, transfer and measurement of such currents and fields and designed for use with a voltage rating not exceeding 1000 volts for alternating

current and 1500 volts for direct current

: The smallest units of articles constituting a product. Constituent articles

For example, articles identified by the Article flag (\*1) in the composition information.

\*1 Article flag: Category that identifies the Article corresponding to the SVHC denominator in the

EU REACH Regulation in chemSHERPA(\*2).

\*2 chemSHERPA: A scheme that Joint Article Management Promotion-consortium (JAMP)

provides to facilitates sharing information on chemical substances in products.

https://chemsherpa.net/english

## 1. Banned Substances

**Table 1: Banned Substances** 

No	Substances	Standards of ban	Remark	Reference
001	Asbestos	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- REACH (Restriction)
002	Azo colorants and Azo dyes which form certain aromatic amines	<ul><li>[1] Ban of intentional addition</li><li>[2] The concentrations in material must not exceed 30ppm.</li></ul>	Refer to Note 2	- REACH (Restriction)
003	Cadmium /Cadmium Compounds	<ul> <li>[1] Ban of intentional addition</li> <li>[2] Concentration in material must not exceed 100 ppm.</li> <li><packaging material=""></packaging></li> <li>[1] and Sum of concentration of the 4 substances (refer to Note 3) in packaging materials must not exceed 100 ppm.</li> </ul>	Refer to Exempted Application in Table 1e This does not apply to textiles used under the conditions specified in No. 54.	- REACH (Restriction) - RoHS Directive - China RoHS
004	Chromium (VI) Compounds	<ul> <li>[1] Ban of intentional addition</li> <li>[2] Concentration in material must not exceed 1000 ppm.</li> <li><in articles="" case="" coming="" contact="" containing="" into="" leather="" of="" or="" parts="" skin="" the="" with=""></in></li> <li>[1] and The concentrations in total dry weight of the leather of those leather part must be less than 3ppm.</li> <li><packaging material=""></packaging></li> <li>[1] and Sum of concentration of the 4 substances (refer to Note 3) in packaging materials must not exceed 100 ppm.</li> </ul>	This does not apply to textiles used under the conditions specified in No. 54.	- RoHS Directive - China RoHS
005	Lead/Lead Compounds	<electrical and="" electronic="" equipment="" packaging=""> [1] Ban of intentional addition [2] Concentration in material must not exceed 1000 ppm. In this regard, however, concentration in material must not exceed 300 ppm in the case of cables/cords with thermoset or thermoplastic coatings. <packaging material=""> [1] and Sum of concentration of the 4 substances (refer to Note 3) in packaging materials must not exceed 100 ppm.</packaging></electrical>	Refer to Exempted Application in Table 1e This does not apply to textiles used under the conditions specified in No. 54.	- REACH (Restriction) - RoHS Directive - China RoHS - California Proposition 65

No	Substances	Standards of ban	Remark	Reference
	Lead/Lead Compounds	<other above="" than="" those=""> [1] and [2], and If those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in the mouth by children, the concentration of lead (expressed as metal) in those articles or accessible parts thereof must not be equal to or greater than 500ppm by weight.</other>	It is considered that an article or accessible part of an article may be placed in the mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.  This does not apply to textiles used under the conditions specified in No. 54.	- REACH (Restriction) - RoHS Directive - China RoHS - California Proposition 65
006	Mercury/Mercury Compounds	<ul> <li>[1] Ban of intentional addition</li> <li>[2] Concentration in material must not exceed 1000 ppm.</li> <li><packaging material=""></packaging></li> <li>[1] and Sum of concentration of the 4 substances (refer to Note 3) in packaging materials must not exceed 100 ppm.</li> </ul>	Refer to Exempted Application in Table 1e	- REACH (Restriction) - RoHS Directive - China RoHS
007	Ozone Depleting Substances (CFCs, HCFCs, HBFCs, carbon tetrachloride, etc.)	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>	Refer to detailed substances in Table 1b	- Montreal Protocol - EC No.2037/2000 - EC No.1005/2009
008	Perfluorooctane sulfonic acid (PFOS) and its derivatives	<ul> <li>[1] Ban of intentional addition</li> <li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li> <li>[3] The concentration or amount shall be - lower than 0.1% by weight in materials,</li> <li>- equal to or below 0.001% by weight in substance or mixture such as inks and toners, and</li> <li>- lower than 1µg/m2 in the coated materials.</li> </ul>		- POPs Regulation
009	Polybrominated Biphenyls (PBBs)	[1] Ban of intentional addition [2] Concentration in material must not exceed 1000 ppm.		- RoHS Directive - China RoHS
010	Polybrominated Diphenylethers (PBDEs)	< Electrical and electronic equipment > [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. [3] Concentration in material must not exceed 1000 ppm.		- RoHS Directive - China RoHS
		< Other than electrical and electronic equipment (including packaging material)> [1] Concentration of the constituent article must not exceed 500 ppm.		- POPs Regulation

No	Substances	Standards of ban	Remark	Reference
011	Polychlorinated Biphenyls (PCBs) and specific substitutes	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>	Refer to examples of substances in Table 1c	- POPs Regulation
012	Polychlorinated Terphenyls (PCTs)	<ul><li>[1] Ban of intentional addition</li><li>[2] Concentration in material must not exceed 50 ppm.</li></ul>		- REACH (Restriction)
013	Shortchain Chlorinated Paraffins (C10-13)	<ul><li>[1] Ban of intentional addition</li><li>[2] Concentration in the article must not exceed 1000 ppm.</li></ul>		- POPs Regulation - Laws of Swiss and Norway
014	Tri-substituted organostannic compounds (except for TBTO)	Concentration of Tin in the article, or part thereof, must not exceed 1000 ppm.		- REACH (Restriction)
015	Tributyl Tin Oxide (TBTO)	<ul><li>[1] Ban of intentional addition</li><li>[2] Concentration of tin in the article, or part thereof, must not exceed 1000 ppm.</li></ul>		- REACH (Restriction) - CSCL (Refer to Note 5)
016	Dimethylfumarate (DMF) CAS No 624-49-7	[1] Concentration in the article, or part thereof, must not exceed 0.1 ppm.		- REACH (Restriction)
017	Dibutyltin compounds (DBT)	[1] Concentration of Tin in the article, or part thereof, must not exceed 1000 ppm.		- REACH (Restriction)
018	Dioctyltin compounds (DOT)	[1] Concentration of Tin in the article, or part thereof, must not exceed 1000 ppm.	This applies to cases that are used for textile, leather products or their parts intended to come into contact with the skin directly, and the case that are used for two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).	- REACH (Restriction)
019	Fluorinated greenhouse gases (HFC, PFC, SF6)	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>	Refer to detailed substances in Table 1d Unless confined system and a recovery scheme for the substances have been established.	- EU Regulation No.842/2006
020	Formaldehyde	<ul><li>[1] Ban of intentional addition</li><li>[2] Concentration in material must not exceed 75 ppm.</li></ul>	This applies to cases that are used for textile products or their parts.  This does not apply to textiles used under the conditions specified in No. 54.	- Laws of Austria and Lithuania

No	Substances	Standards of ban	Remark	Reference
021	Tris(2,3-dibromopropyl)phosphate (TRIS) CAS No 126-72-7	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>	This applies to cases that are used for textile products or their parts intended to come into contact with the skin directly.	- REACH (Restriction)
022	Tris (1-aziridinyl) phosphine oxide (TEPA) CAS No 545-55-1	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>	This applies to cases that are used for textile products or their parts intended to come into contact with the skin directly.	- REACH (Restriction)
023	Polychlorinated Naphthalenes (more than 1 chlorine atom)	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5) - POPs Regulation
024	Hexachlorobenzene	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
025	Aldrin	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
026	Dieldrin	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
027	Endrin	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
028	DDT Chlorophenothane	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
029	Chlordanes	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
030	N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl- p-phenylenediamine and N,N'- dixylyl-p-phenylenediamine	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
031	2,4,6-tri-tert-butylphenol	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
032	Toxaphene	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)

No	Substances	Standards of ban	Remark	Reference
033	Mirex	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
034	Kelthane (Dicofol)	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5) - Law of Turkey
035	Hexachlorobutadiene (HCBD) CAS No. 87-68-3	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5) - The Toxic Substances Control Act (TSCA) for USA
036	Phenol,2-(2H-benzotriazol-2-yl)- 4,6-bis(1,1-dimethlethyl)-;2- benzotriazol-2-yl-4,6-di-tert- butylphenol(UV-320)	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
037	Pentachlorobenzene	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
038	α-Hexachlorocyclohexane	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
039	β-Hexachlorocyclohexane	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
040	γ-Hexachlorocyclohexane	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
041	Chlordecone	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)
042	Nickel(CAS No 7440-02-0) / Nickel Compounds	[1] Ban of use as alloys containing nickel, such as stainless steels or nickel plating.	This applies to the following articles.  1) The most outside surface of keyboards and mice as final products  2) The most outside surface of palm rests of laptops and chassis of mobile phones  3) Surface of liquid crystal touch panels	- REACH (Restriction)

No	Substances	Standards of ban	Remark	Reference
043	Polycyclic aromatic hydrocarbons (PAH)	<ul><li>[1] Ban of intentional addition</li><li>[2] Concentration must not exceed</li><li>0.0001 % by weight of rubber or plastic component.</li></ul>	Refer to detailed substances in Table 1f  This applies to rubber or plastic component where direct and prolonged contact, or repeated in short-term contact with the human skin or the oral cavity are expected:  1) The most outside surface of keyboards and mice  2) The most outside surface of palm rests of laptops and chassis of mobile phones  3) Surface of liquid crystal touch panels  This does not apply to textiles used under the conditions specified in No. 54.	- REACH (Restriction)
044	Perfluorooctanoic acid (PFOA) ,its salts and PFOA-related compounds.	< Article, Mixture > [1] Ban of intentional addition [2] In the mass of the article or in the Mixture - It must be 25 ppb or less For PFOA related compound, one or a combination thereof be1000 ppb or less in total. (Refer to Note 4)	Refer to Exempted Application in Table 1e	- REACH (Restriction)
045	Hexabromocyclododecane (HBCDD)	< Articles> [1] Ban of Intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. [3] Concentration in material must not exceed 0.01% by weight.  < Chemicals > Concentration in chemicals must not exceed 0.01% by weight.	Refer to detailed substances in Table 1h	- POPs Regulation
046	Endosulfan	<ul><li>[1] Ban of intentional addition</li><li>[2] Ban of attachment, mix, or production of the substances in the manufacturing process.</li></ul>		- CSCL (Refer to Note 5)

047	Bis(2-ethylhexyl) phthalate (DEHP)	< Electrical and electronic equipment > [1] Ban of intentional addition [2] Concentration in material must not exceed 1000 ppm.		
048	Butyl benzyl phthalate (BBP)	< Other than electrical and electronic equipment (including packaging material)		- RoHS Directive
049	Dibutyl phthalate (DBP)	[1] Ban of intentional addition [2] Sum of concentration of the four		
050	Diisobutyl phthalate (DIBP)	substances in the plasticized material (refer to Note 6) in the article must not be equal to or greater 1000 ppm.		
051	Pentachlorophenol, Pentachlorophenol-salts, Pentachlorophenol-esters	<ul><li>[1] Ban of intentional addition</li><li>[2] Concentration must equal to or below</li><li>5 ppm even contained in articles or mixtures.</li></ul>		- CSCL (Refer to Note 5) - Law of Turkey
052	Cobalt dichloride	<silica chemicals="" gel="" or="" other=""> Concentration in silica gel or other chemicals must be less than 0.01 wt%.</silica>		- REACH (Restriction)
053	4,4'-isopropylidenediphenol (Bisphenol A) CAS No. 80-05-7	<thermal paper=""> Concentration in the thermal paper must be less than 0.02 wt%.</thermal>		- REACH (Restriction)
054	Certain substances classified as carcinogenic, mutagenic or toxic for reproduction (CMRs) Details: Table 1i.	[1] Ban of intentional addition [2] Concentration in Material must not be equal to or greater than that specified for that substance in Table 1i.	This applies to textiles which under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing and footwear.	- REACH (Restriction)
055	Bis(pentabromophenyl)ether (decabromodiphenyl ether; decaBDE) CAS No. 1163–19–5	[1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process.	This section does not apply if all of the following are met. *Content derived from recycled plastics * The conditions specified in No.010 of this table	- The Toxic Substances Control Act (TSCA) for USA
056	Phenol, isopropylated, phosphate (3:1), PIP (3:1) CAS No. 68937-41-7	[1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process.	This section does not apply in the following cases. *Adhesive and sealant Applications (Until Nov. 5, 2024) *Lubricating oil and grease applications *Content derived from recycled plastics	- The Toxic Substances Control Act (TSCA) for USA
057	Pentachlorothiophenol (PCTP) CAS No. 133-49-3	Concentration in the article must not exceed 1% by weight.		- The Toxic Substances Control Act (TSCA) for USA
058	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances	[1] Ban of intentional addition [2] Concentration in the article or the mixture is below 25 ppb for the sum of C9-C14 PFCAs and their salts or 260 ppb for the sum of C9-C14 PFCA-related substances.	This shall apply from 30 June 2030 to: semiconductors used in spare or replacement parts for finished electronic equipment shipped before 31 December 2023. Refer to Exempted Application in Table 1e	- REACH (Restriction)

059	Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances	Concentration in the article or the mixture is below 25 ppb for the sum of PFHxS and its salts or 1000 ppb for the sum of PFHxS-related substances.		- Laws of Swiss
060	Mineral oil aromatic hydrocarbons (MOAH) comprising from 1 to 7 aromatic rings Hydrocarbons saturated with mineral oil (MOSH) containing 16 to 35 carbon atoms	< In the printing Ink of packaging materials and printed matter > ·The content of mineral oil hydrocarbons (MOAH) comprising from1 to 2 aromatic rings and hydrocarbons saturated with mineral oil (MOSH) comprising from 16 to 35 carbon atoms must be 0.1% or less. ·The content of mineral oil aromatic hydrocarbon (MOAH) comprising from 3 ~ 7 aromatic rings must be 1 ppm or less.		-French law
061	4,4'-sulphonyldiphenol (Bisphenol S) CAS No. 80-09-1	<thermal paper=""> Concentration in the thermal paper must be less than 0.02 wt%</thermal>		- Laws of Swiss
062	Halogenated Flame Retardants	<enclosure and="" displays="" electronic="" of="" stand=""> [1] Ban of intentional addition [2] Concentration in Material must not exceed 1000 ppm even contained as impurities.</enclosure>	For exclusions, see Article 1 of Commission Regulation (EU)2019/2021 (https://eur- lex.europa.eu/eli/reg/201 9/2021/oj)	ErP Directive
063	Methoxychlor	[1] Ban of intentional addition [2] Concentration must equal to or below 10 ppb even contained in articles or mixtures.		
064	'Dechlorane Plus' (includes its syn-isomer and anti-isomer) CAS No. 13560-89-9, 135821-03-3, 135821-74-8	[1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process.		
065	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328) CAS No. 25973-55-1	[1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process.	Refer to Exempted Application in Table 1e	

## Notes regarding Table 1:

- 1) <u>Deliverables shall meet all of "Standards of ban" specified in the above table.</u>
  In terms of "Banned Substances", methodology of how to calculate concentration shall follow below:
  - In this article, the denominator in calculations of the concentration shall be the mass of the "Material", or the mass of the constituent article. You can decide which mass to choose complying with the "Standards of ban" in Table 1 in individual substances.
  - In the case of complex substances or materials, the following will be the "Material".
    - ➤ Chemical compounds, polymer alloys, metal alloys In the case that Deliverables are raw material such as paint, adhesive, ink, paste, polymer resin, glass powder, ceramic powder, each finally formed product by means of expected normal usage.

Examples: - Dried and hardened material for paints or adhesives

- Molded article for polymer resins
- Hardened material for glass or ceramic powder
- > Single layer of paint, printing, or plating. Or, in the case of multi layers, each single layer shall be defined as the "Material".

- In the case of packaging material, corrugated board (base material), adhesive, tape, ink, etc.
- The numerator in calculations of the concentration shall be mass of the applicable chemical substance. In the case of metal alloy, metal element in the metal alloy will be the numerator.
- 2) This applies to cases that azo dyes and azo pigments are used for leather products, textile products or their parts that are possible to contact human skins directly for a long time and that form specified amines listed in Table 1a as a result of decomposition of azo group.
- 3) Four (4) substances in packaging materials:

  Cadmium, Lead, Mercury and each compound and Chromium VI Compounds
- 4) PFOA related compounds are substances that decompose into PFOA, including as one of the structural elements a substance (Contain salts and polymers) having a linear or branched perfluoroheptyl group with a moiety (C7F 15) C.

Not applicable to the following related substances.

- \*In C8F 17 X, X is F (fluorine), CI (chlorine), Br (bromine).
- \*A fluoropolymer covered by CF3 [CF2] n-R, R '= any group, n > 16.
- \*Perfluorinated 8-carbon or more perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides).
- \*Perfluorinated 9-carbon or more perfluoroalkanesulfonic acid and perfluorophosphonic acid (including their salts, esters, halides and anhydrides).
- \* No. 008 "Perfluorooctane sulfonic acid (PFOS) and its derivatives " in the table 1.
- 5) Class I specified chemical substances on Japanese Chemical Substances Control Law (CSCL)
- 6) 'Plasticised material' means any of the following homogeneous materials:
  - polyvinyl chloride (PVC), polyvinylidene chloride (PVDC),polyvinyl acetate (PVA), polyurethanes,
  - any other polymer (including, inter alia, polymer foams and rubber material) except silicone rubber and natural latex coatings,
  - surface coatings, non-slip coatings, finishes, decals, printed designs,
  - adhesives, sealants, paints and inks.
- 7) 'Perfluorooctane sulfonic acid and its derivatives (PFOS)' means C8F17SO2X (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers)
- 8) C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances means the following: Linear and branched perfluorocarboxylic acids of the formula CnF2n+1-C(= O)OH where n = 8, 9, 10, 11, or 13 (C9-C14 PFCAs), including their salts, and any combinations thereof;

Any C9-C14 PFCA-related substance having a perfluoro group with the formula CnF2n +1- directly attached to another carbon atom, where n = 8, 9, 10, 11, 12, or 13, including their salts and any combinations thereof;

Any C9-C14 PFCA-related substance having a perfluoro group with the formula CnF2n +1- that it is not directly attached to another carbon atom, where n = 9, 10, 11, 12, 13 or 14 as one of the structural elements, including their salts and any combinations thereof.

The following substances are excluded from this designation

- CnF2n +1-X, where X = F, Cl, or Br,
- where n = 9, 10, 11, 12, 13 or 14, including any combinations thereof,
- CnF2n +1-C(= O)OX' where n> 13 and X'=any group, including salts.

Table 1a: Aromatic Amines formed from azo colorants and azo dyes

Substances	CAS No.
biphenyl-4-ylamine	92-67-1
Benzidine	92-87-5
4-chloro-o-toluidine	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene	97-56-3
5-nitro-o-toluidine	99-55-8
4-chloroaniline	106-47-8
4-methoxy-m-phenylenediamine	615-05-4
4,4'-methylenedianiline	101-77-9
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethoxybenzidine	119-90-4
3,3'-dimethylbenzidine	119-93-7
4,4'-methylenedi-o-toluidine	838-88-0
6-methoxy-m-toluidine	120-71-8
4,4'-methylene-bis(2-chloroaniline)	101-14-4
4,4'-oxydianiline	101-80-4
4,4'-thiodianiline	139-65-1
o-toluidine	95-53-4
4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-anisidine	90-04-0
4-amino azobenzene	60-09-3

**Table 1b: Ozone Depleting Substances** 

	Substances	CAS No. Rema	ark
	CFC-11	75-69-4	
	CFC-12	75-71-8	
	CFC-13	75-72-9	
	CFC-111	354-56-3	
	CFC-112	76-12-0	
	CFC-112	76-11-9	
		76-13-1	
	CFC-113	354-58-5	
		26523-64-8	
050		76-14-2	
CFCs	CFC-114	1320-37-2	
Chlorofluorocarbons		374-07-2	
	CFC-115	76-15-3	
		422-78-6	
	CFC-211	422-81-1	
		135401-87-5	
	CFC-212	3182-26-1	
	GFG-212	134452-44-1	
	CFC-213	134237-31-3	
	GFG-213	2354-06-5	
	CFC-214	29255-31-0	
	UFU-214	2268-46-4	

	Substances	CAS No.	Remark
		1599-41-3	
		76-17-5	
CFCs	CFC-215	4259-43-2	
Chlorofluorocarbons		1652-81-9	
		812-30-6	
	CFC-216	661-97-2	
	CFC-217	422-86-6	
	Halon-1011(Bromochloromethane)	74-97-5	
	Halon-1202	75-61-6	Refer to Note 1
Holono	Halon-1211	353-59-3	
Halons	Halon-1301	75-63-8	
		124-73-2	
	Halon-2402	25497-30-7	
		27336-23-8	
Tetrachloromethane (Carbon	tetrachloride)	56-23-5	
1,1,1-Trichloroethane (Methy	vlchloroform)	71-55-6	
Bromomethane (Methyl bron	nide)	74-83-9	
Bromoethane (Ethyl bromide	e)	74-96-4	Refer to Note 1
1-Bromopropane (n-propyl b	romide)	106-94-5	Refer to Note 1
Trifluoroiodomethane (Trifluo	promethyl iodide)	2314-97-8	Refer to Note 1
Chloromethane (Methyl chlo	ride)	74-87-3	Refer to Note 1
	Dibromofluoromethane (HBFC-21 B2)	1868-53-7	
	Bromodifluoromethane (HBFC-22 B1)	1511-62-2	
	Bromofluoromethane (HBFC-31 B1)	373-52-4	
	Totrobromofluoroothono (HPEC 121 P4)	306-80-9	
	Tetrabromofluoroethane (HBFC-121 B4)	353-93-5	
		353-97-9	
	Tribromodifluoroethane (HBFC-122 B3)	677-34-9	
		7304-53-2	
	Dibromotrifluoroethane (HBFC-123 B2)	354-04-1	
	Bromotetrafluoroethane (HBFC-124 B1)	127-72-1	
	Tribromofluoroethane (HBFC-131 B3)	420-88-2	
	This official certains (Tible C-131 B3)	598-67-4	
LIDECO	Dibromodifluoroethane (HBFC-132 B2)	75-82-1	
HBFCs		359-19-3	
Hydrobromofluorocarbons	Bromotrifluoroethane (HBFC-133 B1)	421-06-7	
	Dibromofluoroethane (HBFC-141 B2)	358-97-4	
	Bromodifluoroethane (HBFC-142 B1)	420-47-3 359-07-9	
	Bromofluoroethane (HBFC-151 B1)	762-49-2	
	Hexabromofluoropropane (HBFC-221 B6)	-	
	Pentabromodifluoropropane (HBFC-222 B5)	-	
	Tetrabromotrifluoropropane (HBFC-223 B4)	-	
	Tribromotetrafluoropropane (HBFC-224 B3)	666-48-8	
	Dibromopentafluoropropane (HBFC-225 B2)	431-78-7	
	Bromohexafluoropropane (HBFC-226 B1)	2252-78-0	
	Pentabromofluoropropane (HBFC-231 B5)	-	
	Tetrabromodifluoropropane (HBFC-232 B4)	148875-98-3	
	Tribromotrifluoropropane (HBFC-233 B3)	421-90-9	
	Dibromotetrafluoropropane (HBFC-234 B2)	460-86-6	1

	Substances	CAS No.	Remark
	460-88-8		
		22692-16-6	
		26391-11-7	
		422-01-5	
	Bromopentafluoropropane (HBFC-235 B1)	53692-43-6	
	,	53692-44-7	
		677-52-1	
		677-53-2	
		679-94-7	
	Tetrabromofluoropropane (HBFC-241 B4)	148875-95-0	
		70192-80-2	
	Tribromodifluoropropane (HBFC-242 B3)	666-25-1	
	Dibromotrifluoropropane (HBFC-243 B2)	431-21-0	
	Distributing repairs (Fibr & 2 to B2)	679-84-5	
		19041-01-1	
		29151-25-5	
HBFCs	Bromotetrafluoropropane (HBFC-244 B1)	460-67-3	
Hydrobromofluorocarbons		70192-71-1	
		70192-84-6	
	Tribromofluoropropane (HBFC-251 B3)	75372-14-4	
	Dibromodifluoropropane (HBFC-252 B2)	460-25-3	
	Distribution optoparte (FIBI O-232 BZ)	421-46-5	
	Bromotrifluoropropane (HBFC-253 B1)	460-32-2	
	Dibromofluoropropane (HBFC-261 B2)	51584-26-0	
	Dibiomondoropane (HBFG-201 B2)	1786-38-5	
		453-00-9	
		62135-10-8	
		62135-10-8	
	Drama diffusion range (UDEC 202 D4)	111483-20-6	
	Bromodifluoropropane (HBFC-262 B1)	2195-05-3	
		420-89-3	
		420-99-3	
		430-87-5	
		461-49-4	
	Promofluoropropopo (HPEC 271 P1)	1871-72-3	
	Bromofluoropropane (HBFC-271 B1)	352-91-0	
		332-31-0	Refer to
	HCFC-21	75-43-4	Note 1
			Refer to
	HCFC-22	75-45-6	Note 1
	HCEC 34	F00 70 4	Refer to
HCFCs	HCFC-31	593-70-4	Note 1
Hydrochlorofluorocarbons		134237-32-4	Refer to
	HCFC-121	354-11-0	Note 1
		354-14-3	11016 1
		41834-16-6	
	HCEC 122	354-21-2	Refer to
	HCFC-122	354-15-4	Note 1
		354-12-1	
		34077-87-7	
	HCFC-123	90454-18-5	Dofor to
		306-83-2	Refer to Note 1
		354-23-4	Note 1
		812-04-4	

	Substances	CAS No.	Remark
		63938-10-3	Refer to
	HCFC-124	2837-89-0	Note 1
		354-25-6	11010 1
		27154-33-2	
		134237-34-6	Refer to
	HCFC-131	359-28-4	Note 1
		811-95-0	11010
		2366-36-1	
		25915-78-0	
		1649-08-7	Refer to
	HCFC-132	1842-05-3	Note 1
		471-43-2	
		431-06-1	
		1330-45-6	
	HCFC-133	431-07-2	Refer to
	1101 0 100	75-88-7	Note 1
		421-04-5	
		1717-00-6	
	HCFC-141	25167-88-8	Refer to
	1101 0 141	430-57-9	Note 1
HCFCs		430-53-5	
Hydrochlorofluorocarbons		25497-29-4	
		338-65-8	Refer to
	HCFC-142	75-68-3	Note 1
		338-64-7	
		55949-44-5	
	HCFC-151	110587-14-9	Refer to
		762-50-5	Note 1
		1615-75-4	
		134237-35-7	Refer to
	HCFC-221	29470-94-8	Note 1
		422-26-4	
		134237-36-8	
	HCFC-222	422-49-1	Refer to
	1101 0 222	422-30-0	Note 1
		116867-32-4	
		134237-37-9	Refer to
	HCFC-223	422-52-6	Note 1
		422-50-4	
		134237-38-0	
	HCFC-224	422-54-8	Refer to
		422-53-7	Note 1
		422-51-5	
		127564-92-5	
		128903-21-9	
		422-48-0	
		422-44-6	
		422-56-0	Refer to
	HCFC-225	507-55-1	Note 1
		13474-88-9	
		431-86-7	
		136013-79-1	
		111512-56-2	
		2713-09-9	

	Substances	CAS No.	Remark
		134308-72-8	Refer to
	HCFC-226	431-87-8	Note 1
		28987-04-4	14010 1
	HCEC 224	134190-48-0	Refer to
	HCFC-231	421-94-3	Note 1
	HCFC-232	134237-39-1	Refer to
	HCFC-232	460-89-9	Note 1
	HCEC 222	134237-40-4	Refer to
	HCFC-233	7125-83-9	Note 1
	HCEC 224	127564-83-4	Refer to
	HCFC-234	425-94-5	Note 1
		134237-41-5	Refer to
	HCFC-235	460-92-4	Note 1
		108662-83-5	Note
	HOEC 244	134190-49-1	Refer to
	HCFC-241	666-27-3	Note 1
	11050 040	134237-42-6	Refer to
	HCFC-242	460-63-9	Note 1
		134237-43-7	
		7125-99-7	Defer to
	HCFC-243	338-75-0	Refer to Note 1
		460-69-5	
		116890-51-8	
		134190-50-4	Refer to
HCFCs	HCFC-244	679-85-6	Note 1
Hydrochlorofluorocarbons		421-75-0	14010 1
Trydrociliorolladrocarbons	HCFC-251	134190-51-5	Refer to
		818-99-5	Note 1
		421-41-0	11010 1
	HCFC-252	134190-52-6	Refer to
	11010-232	819-00-1	Note 1
		134237-44-8	Refer to
	HCFC-253	460-35-5	Note 1
		26588-23-8	14010 1
		134237-45-9	
	HCFC-261	7799-56-6	Refer to
	1101 0 201	420-97-3	Note 1
		127404-11-9	
		134190-53-7	
	HCFC-262	420-99-5	Refer to
		102738-79-4	Note 1
		421-02-3	
		134190-54-8	Refer to
	HCFC-271	420-44-0	Note 1
		430-55-7	

Note regarding Table 1b:

<sup>1)</sup> The substances are exempted from the Prohibited Substances in manufacturing process specified in Table 4.

Table 1c: Polychlorinated Biphenyls (PCBs) and specific substitutes

Substances	CAS No.
Polychlorinated Biphenyls (all isomers and congeners)	1336-36-3, etc.
Monomethyl-tetrachloro-diphenyl methane (Ugilec 141)	76253-60-6
Monomethyl-dichloro-diphenyl methane(Ugilec 121, Ugilec 21)	81161-70-8
Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8

Table 1d: Fluorinated Greenhouse Gases (HFC, PFC and SF6)

	CAS No.	
	Carbon tetrafluoride (Perfluoromethane)	75-73-0
	Perfluoroethane (Hexafluoroethane)	76-16-4
	Perfluoropropane (Octafluoropropane)	76-19-7
PFCs (Perfluorocarbons)	Perfluorobutane (Decafluorobutane)	355-25-9
	Perfluoropentane (Dodecafluoropentane)	678-26-2
	Perfluorohexane (Tetradecafluorohexane)	355-42-0
	Perfluorocyclobutane	115-25-3
Sulfur Hexafluoride (SF6)		2551-62-4
	Trifluoromethane (HFC-23)	75-46-7
	Difluoromethane (HFC-32)	75-10-5
	Methyl fluoride (HFC-41)	593-53-3
	2H,3H-Decafluoropentane (HFC-43-10mee)	138495-42-8
	Pentafluoroethane (HFC-125)	354-33-6
	1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
	1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
	Difluoroethane	25497-28-3
	1,1-Difluoroethane (HFC-152a)	75-37-6
	1,2- Difluoroethane	624-72-6
UEO (11 1 f)	Trifluoroethane	27987-06-0
HFCs (Hydrofluorocarbons)	1,1,2-Trifluoroethane (HFC-143)	430-66-0
	1,1,1-Trifluoroethane (HFC-143a)	420-46-2
	2H-Heptafluoropropane (HFC-227ea)	431-89-0
	1,1,1,2,2,3,3- Heptafluoropropane	2252-84-8
	1,1,1,2,2,3-Hexafluoro-propane (HFC-236cb)	677-56-5
	1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)	431-63-0
	Hexafluoropropane	27070-61-7
	1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)	690-39-1
	1,1,2,2,3-Pentafluoropropane (HFC-245ca)	679-86-7
	1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1
	1,1,1,2,2- Pentafluoropropane	1814-88-6
	1,1,1,3,3-Pentafluorobutane (HFC-365mfc)	406-58-6

Table 1e: Exempted applications from the containment restriction

NIa		ted applic	cations from the containment restriction
No	Substances		Exempted applications(Refer to Note 1)
003	Cadmium /Cadmium Compounds	13(b)-(II) 13(b)-(III)	Cadmium and its compounds in electrical contacts used in:  - circuit breakers,  - thermal sensing controls,  - thermal motor protectors  (excluding hermetic thermal motor protectors),  - AC switches rated at:  - 6 A and more at 250 V AC and more, or  - 12 A and more at 125 V AC and more,  - DC switches rated at 20 A and more at 18 V DC and more, and  - switches for use at voltage supply frequency ≥ 200 Hz.  (See Note 2 for the prohibited date)  Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex (See Note 2 for the prohibited date)  Cadmium in glazes used for reflectance standards
			(See Note 2 for the prohibited date)
		5(b) 6(a)-l 6(b)-l	Lead in glass of fluorescent tubes not exceeding 0.2% by weight  Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight (See Note 2 for the prohibited date)  Lead as an alloying element in aluminium containing up to 0,4 % lead by
		6(b)-II	weight, provided it stems from lead-bearing aluminium scrap recycling (See Note 2 for the prohibited date)  Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight (See Note 2 for the prohibited date)
		6(c)	Copper alloy containing up to 4% lead by weight (See Note 2 for the prohibited date)
	Lead/Lead Compounds	7(a)	Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead) (See Note 2 for the prohibited date)
005		7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound (See Note 2 for the prohibited date)
		7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (See Note 2 for the prohibited date)
		13(a)	Lead in white glasses used for optical applications (See Note 2 for the prohibited date)
		13(b)-(l)	Lead in ion coloured optical filter glass types (See Note 2 for the prohibited date)
		13(b)-(III)	Lead in glazes used for reflectance standards (See Note 2 for the prohibited date)
		15(a)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: - a semiconductor technology node of 90 nm or larger: - a single die of 300 mm2 or larger in any semiconductor technology node; - stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger.
044	Perfluorooctanoic acid (PFOA) ,its salts and PFOA-related compounds	_	raphy or etching process in semiconductor manufacturing. this exemption shall be applied from Jan 4, 2025.
058	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCArelated substances	_	raphy or etching process in semiconductor manufacturing. this exemption shall be applied from Jan 4, 2025.

No	Substances	Exempted applications (Refer to Note 1)		
65	2-(2H-benzotriazol-2-yl)- 4,6-ditertpentylphenol (UV-328)	<ul> <li>Triacetyl cellulose film in polarisers. The ban of this exemption shall be applied from Aug. 27, 2029.</li> <li>Spare parts for liquid crystal displays in instruments for analysis, measurements, control, monitoring, testing, production and inspection, manufactured before Feb. 26, 2025.</li> <li>Expiration date: The useful life of the liquid crystal displays or 2044 years, whichever comes earlier.</li> </ul>		

## Note regarding Table 1e:

- 1) The number is the exemption number described in RoHS directive
- 2) As the European Commission is considering the renewal of the exemption, it will remain in effect until the official gazette of the renewal is published at the earliest.

Table 1f: Polycyclic aromatic hydrocarbons (PAH)

Substances	CAS No.
Benzo[a]pyrene (BaP)	50-32-8
Benzo[e]pyrene (BeP)	192-97-2
Benzo[a]anthracene (BaA)	56-55-3
Chrysen (CHR)	218-01-9
Benzo[b]fluoranthene (BbFA)	205-99-2
Benzo[j]fluoranthene (BjFA)	205-82-3
Benzo[k]fluoranthene (BkFA)	207-08-9
Dibenzo[a,h]anthracene(DBAhA)	53-70-3

## Table 1g: Missing number

Table 1h: Hexabromocyclododecane (HBCDD)

Substances	CAS No.
	25637-99-4
	4736-49-6
	65701-47-5
	138257-17-7
Hexabromocyclododecane	138257-18-8
	138257-19-9
	169102-57-2
	678970-15-5
	678970-16-6
	678970-17-7
1,2,5,6,9,10-hexabromocyclododecane	3194-55-6
α-hexabromocyclododecane	134237-50-6
β-hexabromocyclododecane	134237-51-7
γ-hexabromocyclododecane	134237-52-8

Table 1i: Banned Standard of CMRs

No.	Substance Name	CAS No.	Banned Standards
1	Cadmium and its compounds	_	1ppm expressed as Cd metal
2	Chromium VI compounds	_	1ppm expressed as Cr VI
3	Arsenic compounds	_	1ppm expressed as As metal
4	Lead and its compounds	_	1ppm expressed as Pb metal
5	Benzene	71-43-2	5ppm
6	Benz[a]anthracene	56-55-3	
7	Benz[e]acephenanthrylene	205-99-2	
8	benzo[a]pyrene; benzo[def]chrysene	50-32-8	
9	Benzo[e]pyrene	192-97-2	
10	Benzo[j]fluoranthene	205-82-3	
11	Benzo[k]fluoranthene	207-08-9	1ppm
12	Chrysene	218-01-9	
13	Dibenz[a,h]anthracene	53-70-3	
14	$\alpha, \alpha, \alpha, 4$ -tetrachlorotoluene; p-chlorobenzotrichloride	5216-25-1	
15	α,α,α-trichlorotoluene; benzotrichloride	98-07-7	
16	α-chlorotoluene; benzyl chloride	100-44-7	
17	Formaldehyde	50-00-0	75ppm
18	1,2-benzenedicarboxylic acid; di-C 6-8-branched alkylesters, C 7-rich	71888-89-6	1000ppm
19	Bis(2-methoxyethyl) phthalate	117-82-8	(Individually or in combination with
20	Diisopentylphthalate	605-50-5	other phthalates of No. 18 - 22 in
21	Di-n-pentyl phthalate (DPP)	131-18-0	this table or in other phthalates (*2))
22	Di-n-hexyl phthalate (DnHP)	84-75-3	
23	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone (NMP)	872-50-4	
24	N,N-dimethylacetamide (DMAC)	127-19-5	3000ppm
25	N,N-dimethylformamide; dimethyl formamide (DMF)	68-12-2	
26	1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1	2475-45-8	
27	Benzenamine, 4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene)dianilinehydrochloride; C.I. Basic Red 9	569-61-9	
28	[4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride; C.I. Basic Violet 3 with ≥ 0,1 % of Michler's ketone (EC no. 202-027-5)	548-62-9	50ppm

No.	Substance Name	CAS No.	Banned Standards
29	4-chloro-o-toluidinium chloride	3165-93-3	
30	2-Naphthylammoniumacetate	553-00-4	
31	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	30ppm
32	2,4,5-trimethylaniline hydrochloride	21436-97-5	
33	Quinoline	91-22-5	50ppm

- (\*1) Calculation method of content as a metal
  - Example) Cadmium Sulfite: [Content of Cadmium Sulfite] \* [Atomic weight of Cd] / [molecular weight of Cadmium Sulfite] = [Content of Cadmium Sulfite] \* 112.4 / 192.5
- (\*2) Phthalates that are classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 in any of the hazard classes carcinogenicity, germ cell mutagenicity or reproductive toxicity, category 1A or 1B

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008

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# 2. Reportable Substances

**Table 2: Reportable Substances** 

No.	Substances	CAS No.	Conditions of reporting	Reference
001	Anthracene	120-12-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
002	4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline, 4'-MDA)	101-77-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
003	Cobalt dichloride	7646-79-9	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of cobalt dichloride shown in Table 1.	REACH (Candidate for Authorization)
004	Arsenic pentoxide	1303-28-2	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
005	Diarsenic trioxide	1327-53-3	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
006	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
007	Lead hydrogen arsenate	7784-40-9	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
008	Triethyl arsenate	15606- 95-8	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
009	Anthracene oil	90640-80-5	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
010	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
011	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
012	Anthracene oil, anthracene-low	90640-82-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
013	Anthracene oil, anthracene paste	90640-81-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
014	Pitch, coal tar, high-temp.	65996-93-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
015	Aluminosilicate,Refractory Ceramic Fibres	-	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] They are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 and fulfil the three following conditions:  a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	REACH (Candidate for Authorization)
016	Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] They are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	REACH (Candidate for Authorization)
017	2,4-dinitrotoluene	121-14-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
018	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
019	Acrylamide	79-06-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
020	Trichloroethylene	79-01-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
021	Boric acid	10043-35-3 11113-50-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
022	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
023	Tetraboron disodium heptaoxide, hydrate	12267-73-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
024	Cobalt(II) sulphate	10124-43-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
025	Cobalt nitrate	10141-05-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
026	Cobalt(II) carbonate	513-79-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
027	Cobalt acetate	71-48-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
028	2-methoxyethanol	109-86-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
029	2-ethoxyethanol	110-80-5	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
030	2-ethoxyethyl acetate	111-15-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
031	1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
032	Hydrazine	7803-57-8 302-01-2 10217-52-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
033	1-methyl-2-pyrrolidone	872-50-4	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
034	1,2,3-trichloropropane	96-18-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
035	1,2-Benzenedicarboxylic acid; di-C6-8-branched alkylesters, C7- rich (DIHP)	71888-89-6	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
036	Calcium arsenate	7778-44-1	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
037	Bis(2-methoxyethyl) ether	111-96-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
038	Lead dipicrate	6477-64-1	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
039	N,N-dimethylacetamide (DMAC)	127-19-5	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
040	Arsenic acid	7778-39-4	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
041	2-Methoxyaniline (o-Anisidine)	90-04-0	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
042	Trilead diarsenate	3687-31-8	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
043	1,2-dichloroethane	107-06-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
044	4-(1,1,3,3-tetramethylbutyl) phenol (4-tert-Octylphenol)	140-66-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
045	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
046	Bis(2-methoxyethyl) phthalate	117-82-8	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
047	Lead diazide, Lead azide	13424-46-9 73513-16-3 69985-35-9	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
048	Lead styphnate	15245-44-0 66778-13-0	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
049	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
050	Phenolphthalein	77-09-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
051	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
052	1,2-dimethoxyethane (ethylene glycol dimethyl ether, EGDME)	110-71-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
053	Diboron trioxide	1303-86-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
054	Formamide	75-12-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
055	Lead(II) bis(methanesulfonate)	17570-76-2	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditional Refer to Note 3]	REACH (Candidate for Authorization)
056	1,3,5-tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	[Additional Conditions] Refer to Note 3  Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
057	1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
058	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
059	N,N,N',N'-tetramethyl-4,4'- methylenedianiline (Michler's base)	101-61-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
060	[4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]c yclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	Concentration in the constituent article exceeds 1000 ppm*  *This condition applies when it contains ≥ 0.1%(1000ppm) of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)	REACH (Candidate for Authorization)
061	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	Concentration in the constituent article exceeds 1000 ppm*  * This condition applies when it contains ≥ 0.1%(1000ppm) of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1) This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
062	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol	561-41-1	Concentration in the constituent article exceeds 1000 ppm*  * This condition applies when it contains ≥ 0.1%(1000ppm) of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)	REACH (Candidate for Authorization)
063	$\alpha, \alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	Concentration in the constituent article exceeds 1000 ppm*  * This condition applies when it contains ≥ 0.1%(1000ppm) of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)	REACH (Candidate for Authorization)
064	Pentacosafluorotridecanoic acid	72629-94-8	Concentration in the constituent article exceeds 1000 ppm  * This is only applied to excluding the prohibition usage of "C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances" shown in Table 1.	REACH (Candidate for Authorization)
065	Tricosafluorododecanoic acid	307-55-1	Concentration in the constituent article exceeds 1000 ppm  * This is only applied to excluding the prohibition usage of "C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances" shown in Table 1.	REACH (Candidate for Authorization)
066	Henicosafluoroundecanoic acid	2058-94-8	Concentration in the constituent article exceeds 1000 ppm  * This is only applied to excluding the prohibition usage of "C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances" shown in Table 1.	REACH (Candidate for Authorization)
067	Heptacosafluorotetradecanoic acid	376-06-7	Concentration in the constituent article exceeds 1000 ppm  * This is only applied to excluding the prohibition usage of "C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances" shown in Table 1.	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
068	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
069	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [Note] The individual cis-[2] and trans-[3] isomer substances and all possible combinations of the cis- and trans-isomers[1] are covered	85-42-7 13149-00-3 14166-21-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
070	Hexahydromethylphthalic anhydride [1] Hexahydro-4-methylphthalic anhydride [2] Hexahydro-1-methylphthalic anhydride [3] Hexahydro-3-methylphthalic anhydride [4] [Note] The individual isomers[2], [3] and [4] (including their cis- and transstereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry	25550-51-0 19438-60-9 48122-14-1 57110-29-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
071	4-Nonylphenol, branched and linear [Note] substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
072	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  [Note] covering well-defined substances and UVCB substances, polymers and homologues	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
073	Methoxy acetic acid	625-45-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
074	N,N-dimethylformamide	68-12-2	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
075	Dibutyltin dichloride (DBTC)	683-18-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
076	Lead monoxide (lead oxide)	1317-36-8	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
077	Orange lead (Lead tetroxide)	1314-41-6	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
078	Lead bis(tetrafluoroborate)	13814-96-5	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
079	Trilead bis(carbonate)dihydroxide	1319-46-6	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
080	Lead titanium trioxide	12060-00-3	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
081	Lead Titanium Zirconium Oxide	12626-81-2	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
082	Silicic acid, lead salt	11120-22-2	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
083	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt(1:1), lead-doped  [Note] with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008.	68784-75-8	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
084	Methyloxirane (Propylene oxide)	75-56-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
085	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
086	Diisopentylphthalate (DIPP)	605-50-5	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
087	N-pentyl-isopentylphthalate	776297-69-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
088	1,2-diethoxyethane	629-14-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
089	Acetic acid, lead salt, basic	51404-69-4	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
090	Lead oxide sulfate	12036-76-9	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
091	[Phthalato(2-)]dioxotrilead	69011-06-9	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
092	Dioxobis(stearato)trilead	12578-12-0	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
093	Fatty acids, C16-18, lead salts	91031-62-8	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
094	Lead cyanamidate	20837-86-9	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
095	Lead dinitrate	10099-74-8	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
096	Pentalead tetraoxide sulphate	12065-90-6	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
097	Pyrochlore, antimony lead yellow	8012-00-8	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
098	Sulfurous acid, lead salt, dibasic	62229-08-7	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
099	Tetraethyllead	78-00-2	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
100	Tetralead trioxide sulphate	12202-17-4	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
101	Trilead dioxide phosphonate	12141-20-7	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
102	Furan	110-00-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
103	Diethyl sulphate	64-67-5	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
104	Dimethyl sulphate	77-78-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
105	3-ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	143860-04-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
107	4,4'-methylenedi-o-toluidine	838-88-0	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
108	4,4'-oxydianiline and its salts	101-80-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
109	4-aminoazobenzene	60-09-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
110	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
111	6-methoxy-m-toluidine (p-cresidine)	120-71-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
112	Biphenyl-4-ylamine	92-67-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
113	o-aminoazotoluene (4-o-tolylazo-o-toluidine)	97-56-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
114	o-toluidine	95-53-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
115	N-methylacetamide	79-16-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
116	Cadmium	7440-43-9	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4	REACH (Candidate for Authorization)
117	Cadmium Oxide	1306-19-0 12139-21-8	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4	REACH (Candidate for Authorization)
118	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of "Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds (A032)" shown in Table 1.	REACH (Candidate for Authorization)
119	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- Pentadecafluorooctanoic acid	335-67-1	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of "Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds (A032)" shown in Table 1.	REACH (Candidate for Authorization)
120	Di-n-pentyl phthalate (DPP)	131-18-0	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
121	4-Nonylphenol, branched and linear, ethoxylated  [Note] substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
122	Cadmium sulphide	1306-23-6	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4	REACH (Candidate for Authorization)
123	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
124	Dihexyl phthalate	84-75-3	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
125	Imidazolidine-2-thione (2- imidazoline-2-thiol)	96-45-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
126	Trixylyl phosphate	25155-23-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
127	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
128	Lead di(acetate)	301-04-2	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3	REACH (Candidate for Authorization)
129	Cadmium chloride	10108-64-2	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4	REACH (Candidate for Authorization)
130	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
131	Sodium peroxometaborate	7632-04-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
132	Sodium perborate; perboric acid, sodium salt	15120-21-5 11138-47-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
133	Cadmium fluoride (CdF2)	7790-79-6	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] This is only applied to the exempted application of cadmium compounds shown in Table 1e. In the other applications, banned standard shown in Table 1 is applied as "Cadmium compounds". This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
134	Cadmium sulphate	10124-36-4 31119-53-6 7790-84-3 15244-35-6	Concentration in the constituent article exceeds 1000 ppm  [Additional Conditions] This is only applied to the exempted application of cadmium compounds shown in Table 1e. In the other applications, banned standard shown in Table 1 is applied as "Cadmium compounds". This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
135	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] This is only applied to the exempted application of UV-328 (A050) shown in Table 1e. In the other applications, banned standard shown in Table 1 is applied as "UV-328"	REACH (Candidate for Authorization)
136	Dioctyltin bis(2-ethylhexyl thioglycolate); 2-ethylhexyl 10-ethyl- 4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)	15571-58-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
137	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
138	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane[1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
139	1,2-benzenedicarboxylicacid, di-C6- 10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
140	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of "C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances" shown in Table 1	REACH (Candidate for Authorization)
141	Nitrobenzene	98-95-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
142	2-(2H-benzotriazol-2-yl)-4-(tert- butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
143	2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol (UV- 327)	3864-99-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
144	1,3-propanesultone	1120-71-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
145	Benzo[a]pyrene	50-32-8	Concentration in the constituent article exceeds 1000 ppm  This is only applied to excluding the prohibition usage of polycyclic aromatic hydrocarbons (PAH) shown in Table 1.  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
146	p-(1,1-dimethylpropyl)phenol	80-46-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts			
147	Nonadecafluorodecanoic acid  Ammonium	335-76-2 3108-42-7	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of "C9-C14 PFCAs, their salts and C9-C14	REACH (Candidate for Authorization)
	nonadecafluorodecanoate		PFCA-related substances" shown in Table 1.	Authorization
	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3		
148	4-heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
149	4,4'- isopropylidenediphenol;bisphenol A	80-05-7	Concentration in the constituent article exceeds 1000 ppm  This is only applied to excluding the prohibition usage of 4,4'-isopropylidenediphenol;bisphenol A shown in Table 1.	REACH (Candidate for Authorization)
150	Reaction products of 1,3,4- thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
	,		Concentration in the constituent article exceeds 1000 ppm	
151	Chrysene	218-01-9, 1719-03-5	This is only applied to excluding the prohibition usage of polycyclic aromatic hydrocarbons (PAH) shown in Table 1(CAS No. 218-01-9).  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
152	Cadmium nitrate	10325-94-7	Concentration in the constituent article exceeds 1000 ppm  This is only applied to the exempted application of Cadmium compounds shown in Table 1e. In the other applications, banned standard shown in Table 1 is applied as "Cadmium compounds".  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
153	Cadmium hydroxide	21041-95-2	Concentration in the constituent article exceeds 1000 ppm  This is only applied to the exempted application of Cadmium compounds shown in Table 1e. In the other applications, banned standard shown in Table 1 is applied as "Cadmium compounds".  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
154	Cadmium carbonate	513-78-0	Concentration in the constituent article exceeds 1000 ppm  This is only applied to the exempted application of Cadmium compounds shown in Table 1e. In the other applications, banned standard shown in Table 1 is applied as "Cadmium compounds".  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
155	Benz[a]anthracene	56-55-3	Concentration in the constituent article exceeds 1000 ppm  This is only applied to excluding the prohibition usage of polycyclic aromatic hydrocarbons (PAH) shown in Table 1.  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
156	Terphenyl, hydrogenated	61788-32-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
157	Octamethylcyclotetrasiloxane (D4)	556-67-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
158	Lead	7439-92-1	Concentration in the constituent article exceeds 1000 ppm  This is only applied to the exempted application of Lead shown in Table 1e. In the other applications, banned standard shown in Table 1 is applied as "Lead".  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	REACH (Candidate for Authorization)
159	Ethylenediamine (EDA)	107-15-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
160	Dodecamethylcyclohexasiloxane (D6)	540-97-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
161	Disodium octaborate	12008-41-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
162	Dicyclohexyl phthalate (DCHP)	84-61-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
163	Decamethylcyclopentasiloxane (D5)	541-02-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
164	Benzo[ghi]perylene	191-24-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
165	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
166	Pyrene	129-00-0	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
167	Phenanthrene	85-01-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
168	Fluoranthene	206-44-0	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
			Concentration in the constituent article exceeds 1000 ppm  This is only applied to excluding the prohibition	REACH
169	Benzo[k]fluoranthene	207-08-9	usage of polycyclic aromatic hydrocarbons (PAH) shown in Table 1.  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.	(Candidate for Authorization)
170	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
171	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]hept an-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
172	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	ı	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
173	4-tert-butylphenol	98-54-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
174	2-methoxyethyl acetate	110-49-6	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
175	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
176	Perfluorobutane sulfonic acid (PFBS) and its salts	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
177	Diisohexyl phthalate	71850-09-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
178	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	71868-10-5	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
179	2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
180	1-vinylimidazole	1072-63-5	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
181	2-methylimidazole	693-98-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
182	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
183	Dibutylbis(pentane-2,4-dionato- O,O')tin	22673-19-4	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of Dibutyltin compounds shown in Table 1.	REACH (Candidate for Authorization)
184	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
185	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of Dioctyltin compounds shown in Table 1.	REACH (Candidate for Authorization)
186	1,4-dioxane	123-91-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
187	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	Ι	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
188	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	_	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
189	4,4'-(1-methylpropylidene)bisphenol	77-40-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
190	Glutaral	111-30-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
191	Medium-chain chlorinated paraffins (MCCP)  UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17	_	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
192	orthoboric acid, sodium salt	_	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
193	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
194	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2. 1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
195	6,6'-di-tert-butyl-2,2'-methylenedi-p- cresol	119-47-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
196	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
197	tris(2-methoxyethoxy)vinylsilane	1067-53-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
198	Per- and polyfluoroalkyl substances (PFAS)	ı	If the contain of the target substance is known, report its content and use.  The criteria of Table 1 also apply to excluding the prohibition usage of "Perfluorooctane sulfonic acid (PFOS) and its derivatives", "Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds.", "C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances", and "PFHxS including its salts and related substances" in Table 1.	Laws of Swiss
199	N-(hydroxymethyl)acrylamide	924-42-5	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
200	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
201	2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
202	4,4'-sulphonyldiphenol (Bisphenol S)	80-09-1	Concentration in the constituent article exceeds 1000 ppm This is only applied to excluding the prohibition usage of 4,4'-sulphonyldiphenol (Bisphenol S) shown in Table 1.	REACH (Candidate for Authorization)
203	Barium diboron tetraoxide	13701-59-2	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
204	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
205	Isobutyl 4-hydroxybenzoate	4247-02-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
206	Melamine	108-78-1	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
207	Perfluoroheptanoic acid and its salts	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
208	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
209	bis(4-chlorophenyl) sulphone	80-07-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)

No.	Substances	CAS No.	Conditions of reporting	Reference
210	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	75980-60-8	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
211	2,4,6-tri-tert-butylphenol	732-26-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
212	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3- tetramethylbutyl)phenol (UV-329)	3147-75-9	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
213	2-(dimethylamino)-2-[(4- methylphenyl)methyl]-1-[4- (morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
214	Bumetrizole (UV-326)	3896-11-5	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
215	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization)
216	$Bis(\alpha,\alpha\text{-dimethylbenzyl}) \ peroxide$	80-43-3	Concentration in the constituent article exceeds 1000 ppm	REACH (Candidate for Authorization) m

## Notes regarding Table 2:

- 1) Contents of management
  - If deliverables meet "Conditions of reporting" defined in the above table, total mass of the applicable chemical substance, purpose of use, and application area, etc., shall be reported to Fujitsu Group.
- 2) In terms of "Reportable Substances", methodology of how to calculate concentration shall follow below:
  - Denominator on calculating concentration is mass of the constituent article.
  - Numerator is mass of the applicable chemical substance.
- 3) The substances fulfill the following additional conditions:
  - Applied only to them when they are used for "Exempted Application" of "lead compounds" defined in Table 1e.
  - Other than those above, they shall comply with the "Standards of ban" as "Lead compounds" defined in Table 1.
  - This is only applied to excluding the prohibition usage of CMRs shown in Table 1.
- 4) The substances fulfill the following additional conditions:
  - Applied only to them when they are used for "Exempted Application" of "Cadmium compounds" defined in Table 1e.
  - Other than those above, they shall comply with the "Standards of ban" as "Cadmium compounds" defined in Table 1.

This is only applied to excluding the prohibition usage of CMRs shown in Table 1.

#### Control Substances

#### **Table 3: Control Substances**

No	Substances	CAS No.	Conditions of Deliverables to be controlled	Remark
001	Brominated Flame Retardants (other than PBBs, PBDEs or HBCDD)	-	Intentionally added	Detailed substances: Refer to Table 3a
002	Polyvinyl Chloride (PVC)	-	Manage the material weights in cases where this substance is intentionally added	
003	Carcinogenic, mutagenic or toxic substances for reproduction (CMRs)	-	Intentionally added	Detailed substances: Refer to Note 3  This is only applied to excluding the prohibition usage of CMRs shown in Table 1.
004	Persistent, bioaccumulative and toxic substances (PBTs), very persistent and very bioaccumulative substances (vPvBs)	-	Intentionally added	Detailed substances: Refer to Note 4

## Notes regarding Table 3:

- 1) Contents of management
  - In the case that Deliverables meet "Conditions of Deliverables to be controlled" defined in the above table, with respect to "Control Substance", its total mass, purpose of use, and application area, etc., shall be managed and recorded.
- 2) In terms of "Control Substances", methodology of how to calculate concentration shall follow below:
  - In this article, the denominator in calculations of the concentration shall be the mass of the target item.
  - In the case of complex substances or materials, the following will be the "Material".
    - Chemical compound, polymer alloy, metal alloy
    - In the case that deliverables are raw material such as paint, adhesive, ink, paste, polymer resin, glass powder, ceramic powder, each finally formed product by means of expected normal usage.
      - Examples: Dried and hardened material for paints or adhesives
        - Molded article for polymer resins
        - Hardened material for glass or ceramic powder
    - Single layer of paint, printing, or plating. Or, in the case of multi layers, each single layer shall be defined as the "Material".
    - In the case of packaging material, corrugated board (base material), adhesive, tape, ink, etc.
  - The numerator in calculations of the concentration shall be mass of the applicable chemical substance. In the case of metal alloy, metal element in the metal alloy will be the numerator.
- 3) Carcinogenic (Carc.), mutagenic (Muta.) or toxic substances for reproduction (Repr.) (CMRs) are substances meeting the criteria for classification as
  - Carc. 1A/1B, Muta. 1B, Repr. 1A/1B, 1A/1B and Carc. Cat. 1,2, Muta. Cat. 1,2, Repr. Cat. 1,2 in accordance with ANNEX VI Table 3.1 , Table 3.2 in REGULATION (EC) No 1272/2008 and
  - COMMISSION REGULATION (EU) No 605/2014 Annex III(1)(2) shown as the following URL.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 ANNEX VI Table 3.1, Table 3.2: http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF

COMMISSION REGULATION (EU) No 605/2014 of 5 June 2014 Annex III(1)(2)

4) Persistent, bioaccumulative and toxic substances (PBTs) and very persistent and very bioaccumulative substances (vPvBs) are substances in accordance with the criteria set out in Annex XIII of REACH Regulation.

Table 3a: Brominated flame retardants (other than PBBs, PBDEs or HBCDD)

· · · · · · · · · · · · · · · · · · ·	<u>-</u>
Brominated flame retardants (other than PBBs, PBDEs or HBCDD)	CAS No.
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	_
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	_
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	_
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls in combination with antimony compounds]	_
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	_
Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus compounds]	_
Poly(2,6-dibromo-phenylene oxide)	69882-11-7
Tetra-decabromo-diphenoxy-benzene	58965-66-5
1,2-Bis(2,4,6-tribromo-phenoxy)ethane	37853-59-1
3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	79-94-7
TBBA, unspecified	30496-13-0
TBBA-epichlorhydrin oligomer	40039-93-8
TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
TBBA carbonate oligomer	28906-13-0
TBBA carbonate oligomer, phenoxy end capped	94334-64-2
TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
TBBA-bisphenol A-phosgene polymer	32844-27-2
Brominated epoxy resin end-capped with tribromophenol	139638-58-7
Brominated epoxy resin end-capped with tribromophenol	135229-48-0
TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
TBBA-bis-(allyl-ether)	25327-89-3
TBBA-dimethyl-ether	37853-61-5
Tetrabromo-bisphenol S	39635-79-5
TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
2,4-Dibromo-phenol	615-58-7
2,4,6-Tribromo-phenol	118-79-6
Pentabromo-phenol	608-71-9
2,4,6-Tribromo-phenyl-allyl-ether	3278-89-5

Brominated flame retardants (other than PBBs, PBDEs or HBCDD)	CAS No.
Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
Bis(methyl)tetrabromo-phthalate	55481-60-2
Bis(2-ethylhexyl)tetrabromo-phthalate	26040-51-7
2-Hydroxy-propyl-2-(2-hydroxy-ethyl)-ethyl-TBP	20566-35-2
TBPA, glycol-and propylene-oxide esters	75790-69-1
N,N'-Ethylene-bis-(tetrabromo-phthalimide)	32588-76-4
Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
2,3-Dibromo-2-butene-1,4-diol	3234-02-4
Dibromo-neopentyl-glycol	3296-90-0
Dibromo-propanol	96-13-9
Tribromo-neopentyl-alcohol	36483-57-5
Poly tribromo-styrene	57137-10-7
Tribromo-styrene	61368-34-1
Dibromo-styrene grafted PP	171091-06-8
Poly-dibromo-styrene	31780-26-4
Bromo-/Chloro-paraffins	68955-41-9
Bromo-/Chloro-alpha-olefin	82600-56-4
Vinylbromide	593-60-2
Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9
Tris(2,4-dibromo-phenyl) phosphate	49690-63-3
Tris(tribromo-neopentyl) phosphate	19186-97-1
Chlorinated and brominated phosphate ester	125997-20-8
Pentabromo-toluene	87-83-2
Pentabromo-benzyl bromide	38521-51-6
1,3-Butadiene homopolymer, brominated	68441-46-3
Pentabromo-benzyl-acrylate, monomer	59447-55-1
Pentabromo-benzyl-acrylate, polymer	59447-57-3
Decabromo-diphenyl-ethane	84852-53-9
Tribromo-bisphenyl-maleinimide	59789-51-4
Brominated trimethylphenyl-lindane	_
Other Brominated Flame Retardants	_
Tetrabromo-cyclo-octane	31454-48-5
1,2-Dibromo-4-(1,2-dibromo-methyl)-cyclo-hexane	3322-93-8
TBPA Na salt	25357-79-3
Tetrabromo phthalic-anhydride	632-79-1
Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	155613-93-7

# 4. Prohibited Substances in manufacturing process

Table 4: Prohibited Substances in manufacturing process

Substances	Details
Ozone Depleting Substances in Table 1b	The following cases are exempted:  The substances are used for indirect manufacturing process such as analytical determination and product development.  The substances are used for freezing machines and/or air-conditioning machines.  The following substances are exempted from the substances:  Substances of Note 1 of Table 1b:  HCFCs  Halon-1202  Bromoethane (Ethyl bromide)  Bromopropane (n-propyl bromide)  Trifluoroiodomethane (Trifluoromethyl iodide)  Chloromethane (Methyl chloride)
	[Note] If you use HCFCs, please work to reduce the emission and/or the use.

[Revision record	]	
May 13,2010	(Edition 1)	Created. (Separated from "Fujitsu Group Green Procurement Direction")
<b>,</b> ,	(======================================	Added 1 substance to Reportable Substances.
Jul. 9, 2010	(Edition 1.1)	Added 2 substances to Banned Substances, and renamed 1 substance.
· · · · · · · · · · · · · · · · · · ·	(======	Added 5 substances to Ozone Depleting Substances.
		Added 8 substances to Reportable Substances.
		Redefined 2 Radioactive Substances.
Oct. 25, 2010	(Edition 1.2)	Restructured Exempted Applications (Table 1d).
201. 20, 2010	(Lunion 1.2)	Deleted 5 Reportable Substances.
Jan. 24, 2011	(Edition 1.3)	Added 5 substances to Banned Substances.
0dii. 2 1, 20 11	(Lanton 1.0)	Added 6 substances to Reportable Substances.
		Deleted 2 substances to Control Substances.
		Created "Table 4: Prohibited Substances in manufacturing process"
Jul. 6, 2011	(Edition 1.4)	Added 6 substances to Reportable Substances.
Jul. 0, 2011	(Edition 1.4)	Deleted 3 substances to Reportable Substances.
Oct. 11, 2011	(Edition 1.5)	Revised in part (Clause 4)
	,	
Jan. 20, 2012	(Edition 1.6)	Added 15 substances as "Reportable Substances".
		Added substances as "Detailed Substances" of Ozone Depleting Substances and
		Fluorinated Greenhouse Gases.
	<i>(</i> =	Amended "Exempted applications".
Jul. 20, 2012	(Edition 1.7)	Added 13 substances as "Reportable Substances".
		Added substances as "Detailed Substances" of Ozone Depleting Substances.
		Modified the "Table 4: Prohibited Substances in manufacturing process".
Jan. 28, 2013	(Edition 1.8)	Added 1 substance to "Banned Substances."
		Revised "Standards of ban" of 1 substance.
		Added 52 substances as "Reportable Substances".
		Added 2 substances as "Control Substances".
		Deleted 5 substances as "Control Substances".
		Revised "Conditions of Deliverables to be controlled" of 2 substances.
		Modified the "Table 1e" (Deleted the exempted applications expired.)
		Deleted the "Table 3b" and "Table 3c."
Jul. 19, 2013	(Edition 1.9)	Added 6 substances as "Reportable Substances"
Feb. 5, 2014	(Edition 2.0)	Added and modified some terms in "Definition of terms"
		Added 2 substances as "Banned Substances" and revised "Standards of ban" of 3
		substances in Table 1
		Modified Table 1e (added 1 exempted application and modified the expired dates)
		Added Table 1f and Table 1g
		Added 7 substances as "Reportable Substances" and revised "Conditions of
		reporting" of 2 substances in Table 2
May 1, 2014	(Edition 2.1)	Added 2 substances as "Banned Substances" and Table 1h.
		Deleted 1 substance of "Reportable Substances."
July 18, 2014	(Edition 2.2)	Added 4 substances as "Reportable Substances".
		Deleted Exempted applications on Dibutyltin compounds in Table 1 and Table 1e
Feb. 5, 2015	(Edition 2.3)	Criteria change of 5 substances in Table 1.
		Name change of 1 substance in Table 1.
		Added 5 substances as "Reportable Substances" in Table 2.
		Criteria change of 1 substance in Table 2.
July 31, 2015	(Edition 2.4)	Added one "Definition of term"
		Criteria change of 1 substance and Added 5 substances in Table 1

		Modified Table 1e (added the expired dates and deleted PFOA)
Jan. 28, 2016	(Edition 2.5)	Added 2 substances as "Reportable Substances"  Added one substance as "Banned Substances" and revised "Standards of ban" of
•	,	one substance in Table 1.
		Added 5 substances as "Reportable Substances" in Table 2.
		Deleted expired Exempted applications in Table 1e.
March 1, 2016	(Edition 2.5.1)	Correction of erroneous description in Table 1 (No. 23)
July 22, 2016	(Edition 2.6)	("1 chlorine atoms" to "1 chlorine atom")
July 22, 2016	(Edition 2.6)	Added 1 substance as "Reportable Substances" in Table 2.
Feb. 24, 2017	(Edition 2.7)	Criteria change of 1 substance and Added 2 substances in Table 1
0 0 0047	(F.III. 0.0)	Added 4 substances as "Reportable Substances" in Table 2.
Sep. 6, 2017	(Edition 2.8)	Criteria change of one substance in Table 1
		Criteria change of Exempted applications in Table 1e
Mar. 14, 2018	(Edition 2.9)	Added one substance as "Reportable Substances" in Table 2 Criteria change of 5 substances in Table 1
Mai. 14, 2010	(Edition 2.9)	Added 7 substances as "Reportable Substances" in Table 2
Aug. 24, 2018	(Edition 3.0)	Deleted one substance as "Banned Substances" in Table 1
7 tag. 2 1, 2010	(Lamon 6.6)	Added one substance as "Banned Substances" in Table 1
		Changed Exempted Applications (Table 1e)
		Added 10 substances as "Reportable Substances" in Table 2
Jan. 9, 2013	(Edition 3.1)	Partial change of "Standard of ban"
		Partial change of "Conditions of reporting"
Apr. 1, 2019	(Edition 3.2)	Criteria change and Added one substance in Table 1
		Added 6 substances as "Reportable Substances" in Table 2
Sep. 24, 2019	(Edition 3.3)	Added 4 substances as "Reportable Substances" in Table 2
		Deleted exempted applications for lead, "8(b) "and "15" in Table 1e
Apr. 1, 2020	(Edition 3.4)	Added 4 substances as "Reportable Substances" in Table 2
		Deleted exempted applications for PFOS and PFOS-related substances in Table 1
Aug. 7, 2020	(Edition 3.5)	Added 4 substances as "Reportable Substances" in Table 2
Man 45 2024	(Edition 2.0)	Changed exemption ban date in Table 1e
Mar. 15,2021	(Edition 3.6)	Added 3 substances as "Banned Substances" in Table 1  Added 2 substances as "Reportable Substances" in Table 2
Sep. 21,2021	(Edition 3.7)	Added 8 substances as "Reportable Substances" in Table 2
•	,	
Mar. 21,2022	(Edition 3.8)	Added 1 substance as "Banned Substances" in Table 1
		Deleted exempted applications for mercury in Table 1e  Added 4 substances as "Reportable Substances" in Table 2
Mar. 30,2022	(Edition 3.9)	Added 1 substance as "Banned Substances" in Table 1
War. 00,2022	(Edition 0.5)	Added 1 substance as "Reportable Substances" in Table 2
Sep. 30,2022	(Edition 4.0)	Added 1 substance as "Banned Substances" in Table 1
,	,	Added 1 substance as "Reportable Substances" in Table 2
Apr 1,2023	(Edition 4.1)	Added 1 substance as "Banned Substances" in Table 1
	•	Added 9 substances as "Reportable Substances" in Table 2
Sep. 20,2023	(Edition 4.2)	Added 1 substance as "Banned Substances" in Table 1
		Added 2 substances as "Reportable Substances" in Table 2
Oct. 1,2024	(Edition 4.3)	Added 3 substance as "Banned Substances" in Table 1
		Added 6 substances and deleted 5 substances as "Reportable Substances" in
		Table 2



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