

Fujitsu Group Specified Chemical Substances List



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Fujitsu Limited

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[Definition of terms]

| | |
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| 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. |
| Material | : Homogeneous material which cannot be decomposed furthermore or composite material which 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 |
| Chemical Substance | : A chemical element or compound that either exists in nature or is obtained through a 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 |
| Electrical and electronic equipment | : 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 |
| Constituent articles | : Articles constituting a product. For example, delivery article (unit, parts and so on) When the delivery article is a completed product, the article means the unit, parts and so on. |

1. Banned Substances

Table 1: Banned Substances

| No | Substances | Standards of ban | Remark | Reference |
|-----|---|---|---|--|
| 001 | Asbestos | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - REACH (Restriction) |
| 002 | Azo colorants and Azo dyes which form certain aromatic amines | [1] Ban of intentional addition [2] The concentrations in material must not exceed 30ppm. | Refer to Note 2 | - REACH (Restriction) |
| 003 | Cadmium /Cadmium Compounds | [1] Ban of intentional addition [2] Concentration in material must not exceed 100 ppm. <Packaging material> [1] and Sum of concentration of the 4 substances (refer to Note 3) in packaging materials must not exceed 100 ppm. | 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 | [1] Ban of intentional addition [2] Concentration in material must not exceed 1000 ppm. <In the case of leather articles or articles containing leather parts coming into contact with the skin> [1] and The concentrations in total dry weight of the leather of those leather part must be less than 3ppm. <Packaging material> [1] and Sum of concentration of the 4 substances (refer to Note 3) in packaging materials must not exceed 100 ppm. | 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 and 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. | 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 than those above> [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. | 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 | [1] Ban of intentional addition [2] Concentration in material must not exceed 1000 ppm. <Packaging material> [1] and Sum of concentration of the 4 substances (refer to Note 3) in packaging materials must not exceed 100 ppm. | Refer to Exempted Application in Table 1e | - REACH (Restriction) - RoHS Directive - China RoHS |
| 007 | Ozone Depleting Substances (CFCs, HCFCs, HBFCs, carbon tetrachloride, etc.) | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | Refer to detailed substances in Table 1b | - Montreal Protocol - EC No.2037/2000 - EC No.1005/2009 |
| 008 | PFOS and PFOS-related substances | [1] Ban of intentional addition [2] Concentration or amount must not exceed undermentioned numerical numbers. - Concentration in material: 0.1wt% - Concentration in chemical product : 0.001wt% - Amount in the coated materials: 1µg/m ² | | - 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] 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 |
| 011 | Polychlorinated Biphenyls (PCBs) and specific substitutes | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | Refer to examples of substances in Table 1c | - POPs Regulation |

| No | Substances | Standards of ban | Remark | Reference |
|-----|--|--|---|---|
| 012 | Polychlorinated Terphenyls (PCTs) | [1] Ban of intentional addition [2] Concentration in material must not exceed 50 ppm. | | - REACH (Restriction) |
| 013 | Shortchain Chlorinated Paraffins (C10-13) | [1] Ban of intentional addition [2] Concentration in material must not exceed 1000 ppm. | | - POPs Regulation - Laws of Swiss and Norway |
| 014 | Tri-substituted organostannic compounds (except for TBTO) | Concentration of Tin in the constituent article must not exceed 1000 ppm. | | - REACH (Restriction) |
| 015 | Tributyl Tin Oxide (TBTO) | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - REACH (Restriction) - CSCL (Refer to Note 5) |
| 016 | Dimethylfumarate (DMF) CAS No 624-49-7 | [1] Concentration in the constituent article must not exceed 0.1 ppm. | | - REACH (Restriction) |
| 017 | Dibutyltin compounds (DBT) | [1] Concentration of Tin in the constituent article must not exceed 1000 ppm. | | - REACH (Restriction) |
| 018 | Diocetyl tin compounds (DOT) | [1] Concentration of Tin in the constituent article 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) | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | 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 | [1] Ban of intentional addition [2] Concentration in material must not exceed 75 ppm. | 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 |
| 021 | Tris(2,3-dibromopropyl)phosphate (TRIS) CAS No 126-72-7 | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | This applies to cases that are used for textile products or their parts intended to come into contact with the skin directly. | - REACH (Restriction) |

| No | Substances | Standards of ban | Remark | Reference |
|-----|--|--|---|---|
| 022 | Tris (1-aziridinyl) phosphine oxide (TEPA) CAS No 545-55-1 | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | 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) | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) - POPs Regulation |
| 024 | Hexachlorobenzene | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 025 | Aldrin | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 026 | Dieldrin | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 027 | Endrin | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 028 | DDT Chlorophenothane | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 029 | Chlordanes | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 030 | N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine and N,N'-dixylyl-p-phenylenediamine | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 031 | 2,4,6-tri-tert-butylphenol | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 032 | Toxaphene | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 033 | Mirex | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |

| No | Substances | Standards of ban | Remark | Reference |
|-----|---|--|--|--|
| 034 | Kelthane (Dicofol) | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) - Law of Turkey |
| 035 | Hexachloro-1,3-butadiene | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 036 | Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-;2-benzotriazol-2-yl-4,6-di-tert-butylphenol(UV-320) | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 037 | Pentachlorobenzene | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 038 | α -Hexachlorocyclohexane | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 039 | β -Hexachlorocyclohexane | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 040 | γ -Hexachlorocyclohexane | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) |
| 041 | Chlordecone | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - 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) | [1] Ban of intentional addition [2] Concentration must not exceed 0.0001 % by weight of rubber or plastic component. | 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) CAS No 335-67-1 and its salts. | < Article, Mixture > In the mass of the article or in the mixture [1] It must be less than 25 ppb. [2] For PFOA related substances, one or a combination thereof be less than 1000 ppb 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] 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 | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - 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 substances in the plasticized material (refer to Note 6) in the article must not be equal to or greater 1000 ppm. | | |
| 050 | Diisobutyl phthalate (DIBP) | | | |
| 051 | Pentachlorophenol, Pentachlorophenol-salts, Pentachlorophenol-esters | [1] Ban of intentional addition [2] Ban of attachment, mix, or production of the substances in the manufacturing process. | | - CSCL (Refer to Note 5) - Law of Turkey |
| 052 | Cobalt dichloride | <Silica gel or other chemicals> Concentration in silica gel or other chemicals must be less than 0.01 wt%. | | - 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%. | | - 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) |

Notes regarding Table 1:

1) Deliverables shall meet all of "Standards of ban" specified in the above table.

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) Any related substance (including its salts and polymers) having a linear or branched perfluoroheptyl group with the formula C_7F_{15} - directly attached to another carbon atom, as one of the structural elements. Any related substance (including its salts and polymers) having a linear or branched perfluorooctyl group with the formula C_8F_{17} - as one of the structural elements.

The following substances are excluded from this designation: — $C_8F_{17}-X$, where $X = F, Cl, Br$. — $C_8F_{17}-C(=O)OH$, $C_8F_{17}-C(=O)O-X'$ or $C_8F_{17}-CF_2-X'$ (where $X' =$ any group, including salts).

- 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.

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. | Remark |
|-----------------------------|-------------|------------|
| CFCs Chlorofluorocarbons | 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 |
| | | 76-11-9 |
| | CFC-113 | 76-13-1 |
| | | 354-58-5 |
| | | 26523-64-8 |
| | CFC-114 | 76-14-2 |
| | | 1320-37-2 |
| | CFC-115 | 374-07-2 |
| | | 76-15-3 |
| | CFC-211 | 422-78-6 |
| 422-81-1 | | |
| 135401-87-5 | | |
| CFC-212 | 3182-26-1 | |
| | 134452-44-1 | |
| CFC-213 | 134237-31-3 | |
| | 2354-06-5 | |
| CFC-214 | 29255-31-0 | |
| | 2268-46-4 | |

| Substances | | CAS No. | Remark |
|---|---|--------------------------------------|-----------------|
| CFCs Chlorofluorocarbons | CFC-215 | 1599-41-3 | |
| | | 76-17-5 | |
| | | 4259-43-2 | |
| | | 1652-81-9 | |
| | | 812-30-6 | |
| | CFC-216 | 661-97-2 | |
| | CFC-217 | 422-86-6 | |
| Halons | Halon-1011(Bromochloromethane) | 74-97-5 | |
| | Halon-1202 | 75-61-6 | Refer to Note 1 |
| | Halon-1211 | 353-59-3 | |
| | Halon-1301 | 75-63-8 | |
| | Halon-2402 | 124-73-2 25497-30-7 27336-23-8 | |
| Tetrachloromethane (Carbon tetrachloride) | | 56-23-5 | |
| 1,1,1-Trichloroethane (Methylchloroform) | | 71-55-6 | |
| Bromomethane (Methyl bromide) | | 74-83-9 | |
| Bromoethane (Ethyl bromide) | | 74-96-4 | Refer to Note 1 |
| 1-Bromopropane (n-propyl bromide) | | 106-94-5 | Refer to Note 1 |
| Trifluoroiodomethane (Trifluoromethyl iodide) | | 2314-97-8 | Refer to Note 1 |
| Chloromethane (Methyl chloride) | | 74-87-3 | Refer to Note 1 |
| HBFCs Hydrobromofluorocarbons | Dibromofluoromethane (HBFC-21 B2) | 1868-53-7 | |
| | Bromodifluoromethane (HBFC-22 B1) | 1511-62-2 | |
| | Bromofluoromethane (HBFC-31 B1) | 373-52-4 | |
| | Tetrabromofluoroethane (HBFC-121 B4) | 306-80-9 | |
| | | 353-93-5 | |
| | Tribromodifluoroethane (HBFC-122 B3) | 353-97-9 | |
| | | 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 | |
| | | 598-67-4 | |
| | Dibromodifluoroethane (HBFC-132 B2) | 75-82-1 | |
| | | 359-19-3 | |
| | 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 | | |

| Substances | | CAS No. | Remark |
|--------------------------------------|---|------------------------|-----------------|
| HBFCs Hydrobromofluorocarbons | Dibromotetrafluoropropane (HBFC-234 B2) | 460-86-6 | |
| | Bromopentafluoropropane (HBFC-235 B1) | 460-88-8 | |
| | | 22692-16-6 | |
| | | 26391-11-7 | |
| | | 422-01-5 | |
| | | 53692-43-6 | |
| | | 53692-44-7 | |
| | | 677-52-1 | |
| | | 677-53-2 | |
| | 679-94-7 | | |
| | Tetrabromofluoropropane (HBFC-241 B4) | 148875-95-0 | |
| | Tribromodifluoropropane (HBFC-242 B3) | 70192-80-2 666-25-1 | |
| | Dibromotrifluoropropane (HBFC-243 B2) | 431-21-0 | |
| | Bromotetrafluoropropane (HBFC-244 B1) | 679-84-5 | |
| 19041-01-1 | | | |
| 29151-25-5 | | | |
| 460-67-3 | | | |
| | 70192-71-1 | | |
| | 70192-84-6 | | |
| Tribromofluoropropane (HBFC-251 B3) | 75372-14-4 | | |
| Dibromodifluoropropane (HBFC-252 B2) | 460-25-3 | | |
| Bromotrifluoropropane (HBFC-253 B1) | 421-46-5 | | |
| | 460-32-2 | | |
| Dibromofluoropropane (HBFC-261 B2) | 51584-26-0 | | |
| | 1786-38-5 | | |
| | 453-00-9 | | |
| | 62135-10-8 | | |
| | 62135-11-9 | | |
| Bromodifluoropropane (HBFC-262 B1) | 111483-20-6 | | |
| | 2195-05-3 | | |
| | 420-89-3 | | |
| | 420-98-4 | | |
| | 430-87-5 | | |
| | 461-49-4 | | |
| Bromofluoropropane (HBFC-271 B1) | 1871-72-3 | | |
| | 352-91-0 | | |
| HCFCs Hydrochlorofluorocarbons | HCFC-21 | 75-43-4 | Refer to Note 1 |
| | HCFC-22 | 75-45-6 | Refer to Note 1 |
| | HCFC-31 | 593-70-4 | Refer to Note 1 |
| | HCFC-121 | 134237-32-4 | |
| | | 354-11-0 354-14-3 | |
| HCFC-122 | 41834-16-6 | | |
| | 354-21-2 | | |
| | 354-15-4 354-12-1 | | |

| Substances | | CAS No. | Remark |
|-----------------------------------|----------|--|--------------------|
| HCFCs Hydrochlorofluorocarbons | HCFC-123 | 34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 | Refer to Note 1 |
| | HCFC-124 | 63938-10-3 2837-89-0 354-25-6 | Refer to Note 1 |
| | HCFC-131 | 27154-33-2 134237-34-6 359-28-4 811-95-0 2366-36-1 | Refer to Note 1 |
| | HCFC-132 | 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 | Refer to Note 1 |
| | HCFC-133 | 1330-45-6 431-07-2 75-88-7 421-04-5 | Refer to Note 1 |
| | HCFC-141 | 1717-00-6 25167-88-8 430-57-9 430-53-5 | Refer to Note 1 |
| | HCFC-142 | 25497-29-4 338-65-8 75-68-3 338-64-7 55949-44-5 | Refer to Note 1 |
| | HCFC-151 | 110587-14-9 762-50-5 1615-75-4 | Refer to Note 1 |
| | HCFC-221 | 134237-35-7 29470-94-8 422-26-4 | Refer to Note 1 |
| | HCFC-222 | 134237-36-8 422-49-1 422-30-0 116867-32-4 | Refer to Note 1 |
| | HCFC-223 | 134237-37-9 422-52-6 422-50-4 | Refer to Note 1 |
| | HCFC-224 | 134237-38-0 422-54-8 422-53-7 422-51-5 | Refer to Note 1 |

| Substances | | CAS No. | Remark |
|-----------------------------------|--|---|--------------------|
| HCFCs Hydrochlorofluorocarbons | HCFC-225 | 127564-92-5 128903-21-9 422-48-0 422-44-6 422-56-0 507-55-1 13474-88-9 431-86-7 136013-79-1 111512-56-2 2713-09-9 | Refer to Note 1 |
| | HCFC-226 | 134308-72-8 431-87-8 28987-04-4 | Refer to Note 1 |
| | HCFC-231 | 134190-48-0 421-94-3 | Refer to Note 1 |
| | HCFC-232 | 134237-39-1 460-89-9 | Refer to Note 1 |
| | HCFC-233 | 134237-40-4 7125-83-9 | Refer to Note 1 |
| | HCFC-234 | 127564-83-4 425-94-5 | Refer to Note 1 |
| | HCFC-235 | 134237-41-5 460-92-4 108662-83-5 | Refer to Note 1 |
| | HCFC-241 | 134190-49-1 666-27-3 | Refer to Note 1 |
| | HCFC-242 | 134237-42-6 460-63-9 | Refer to Note 1 |
| | HCFC-243 | 134237-43-7 7125-99-7 338-75-0 460-69-5 116890-51-8 | Refer to Note 1 |
| | HCFC-244 | 134190-50-4 679-85-6 421-75-0 | Refer to Note 1 |
| | HCFC-251 | 134190-51-5 818-99-5 421-41-0 | Refer to Note 1 |
| | HCFC-252 | 134190-52-6 819-00-1 | Refer to Note 1 |
| | HCFC-253 | 134237-44-8 460-35-5 26588-23-8 | Refer to Note 1 |
| | HCFC-261 | 134237-45-9 7799-56-6 420-97-3 127404-11-9 | Refer to Note 1 |
| HCFC-262 | 134190-53-7 420-99-5 102738-79-4 421-02-3 | Refer to Note 1 | |

| Substances | | CAS No. | Remark |
|--------------------------|----------|-------------|-----------------|
| HCFCs | HCFC-271 | 134190-54-8 | Refer to Note 1 |
| Hydrochlorofluorocarbons | | 420-44-0 | |
| | | 430-55-7 | |

Note regarding Table 1b:

- 1) The substances are exempted from the Prohibited Substances in manufacturing process specified in Table 4.

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

| Substances | CAS No. |
|--|------------|
| Polychlorinated Biphenyls (all isomers and congeners) | 1336-36-3 |
| 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)

| Substances | | CAS No. |
|--|--|-------------|
| PFCs (Perfluorocarbons) | Carbon tetrafluoride (Perfluoromethane) | 75-73-0 |
| | Perfluoroethane (Hexafluoroethane) | 76-16-4 |
| | Perfluoropropane (Octafluoropropane) | 76-19-7 |
| | 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 |
| HFCs (Hydrofluorocarbons) | 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 |
| | Trifluoroethane | 27987-06-0 |
| | 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

| No | Substances | Exempted applications (Refer to Note 1) |
|---|--|---|
| 003 | Cadmium /Cadmium Compounds | 8(b)-I Cadmium and its compounds in electrical contacts used in: <ul style="list-style-type: none"> - circuit breakers, - thermal sensing controls, - thermal motor protectors (excluding hermetic thermal motor protectors), - AC switches rated at: <ul style="list-style-type: none"> - 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 \geq 200 Hz. (banned from Jan 21, 2021) |
| | | 13(b)-(II) Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex(banned from Jan 21, 2021) |
| | | 13(b)-(III) Cadmium in glazes used for reflectance standards(banned from Jan 21, 2021) |
| 005 | Lead/Lead Compounds | 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight |
| | | 6(a)-I Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight (banned from Jan 21, 2021) |
| | | 6(b)-I Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling (banned from Jan 21, 2021) |
| | | 6(b)-II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight (banned from Nov 18, 2020) |
| | | 6(c) Copper alloy containing up to 4% lead by weight (banned from Jan 21, 2021) |
| | | 7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead) (banned from Jan 21, 2021) |
| | | 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 (banned from Jan 21, 2021) |
| | | 7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (banned from 21 January 2021) |
| | | 13(a) Lead in white glasses used for optical applications(banned from Jan 21, 2021) |
| | | 13(b)-(I) Lead in ion coloured optical filter glass types(banned from Jan 21, 2021) |
| | | 13(b)-(III) Lead in glazes used for reflectance standards(banned from Jan 21, 2021) |
| 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: <ul style="list-style-type: none"> - 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. | | |
| 006 | Mercury/Mercury Compounds | Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp) |
| | | 3(a) Short length (\leq 500 mm): 3.5mg may be used per lamp |
| | | 3(b) Medium length (> 500mm and \leq 1500 mm): 5mg may be used per lamp |
| | | 3(c) Long length (> 1,500 mm) : 13mg may be used per lamp |
| 044 | Perfluorooctanoic acid (PFOA) CAS No 335-67-1 and its salts. | <ul style="list-style-type: none"> - In photographic coatings applied to films, papers or printing plates - In photo-lithography processes for semiconductors or in etching processes for compound semiconductors |

Note regarding Table 1e:

1) The number is the exemption number described in RoHS directive

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. |
|-------------------------------------|-------------|
| Hexabromocyclododecane | 25637-99-4 |
| | 4736-49-6 |
| | 65701-47-5 |
| | 138257-17-7 |
| | 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. | Substances | Banned Standards (*1) |
|-----|---------------------------|----------------------------|
| 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 | 5ppm |
| 6 | Benz[a]anthracene | 1ppm |

| No. | Substances | Banned Standards (*1) |
|-----|---|--|
| 7 | Benz[e]acephenanthrylene | |
| 8 | benzo[a]pyrene; benzo[def]chrysene | |
| 9 | Benzo[e]pyrene | |
| 10 | Benzo[j]fluoranthene | |
| 11 | Benzo[k]fluoranthene | |
| 12 | Chrysene | |
| 13 | Dibenz[a,h]anthracene | |
| 14 | α , α , α , 4-tetrachlorotoluene; p-chlorobenzotrichloride | |
| 15 | α , α , α -trichlorotoluene; benzotrichloride | |
| 16 | α -chlorotoluene; benzyl chloride | |
| 17 | Formaldehyde | 75ppm |
| 18 | 1,2-benzenedicarboxylic acid; di-C 6-8-branched alkylesters, C 7-rich | |
| 19 | Bis(2-methoxyethyl) phthalate | |
| 20 | Diisopentylphthalate | |
| 21 | Di-n-pentyl phthalate (DPP) | |
| 22 | Di-n-hexyl phthalate (DnHP) | |
| 23 | N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone (NMP) | |
| 24 | N,N-dimethylacetamide (DMAC) | |
| 25 | N,N-dimethylformamide; dimethyl formamide (DMF) | |
| 26 | 1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1 | |
| 27 | Benzenamine, 4,4'-(4-iminocyclohexa-2,5-dienylidene)methylene)dianilinehydrochloride; C.I. Basic Red 9 | |
| 28 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride; C.I. Basic Violet 3 with $\geq 0,1$ % of Michler's ketone (EC no. 202-027-5) | |
| 29 | 4-chloro-o-toluidinium chloride | |
| 30 | 2-Naphthylammoniumacetate | |
| 31 | 4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate | |
| 32 | 2,4,5-trimethylaniline hydrochloride | |
| 33 | Quinoline | |
| | | 1000ppm (individually or in combination with other phthalates of No. 18 - 22 in this table or in other phthalates (*2)) |
| | | 3000ppm |
| | | 50ppm |
| | | 30ppm |
| | | 50ppm |

(*1) Calculation method of content as a metal

Example) Cadmium Sulfite: $[\text{Content of Cadmium Sulfite}] * [\text{Atomic weight of Cd}] / [\text{molecular weight of Cadmium Sulfite}] = [\text{Content of Cadmium Sulfite}] * 112.4 / 192.5$

(*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

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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 | Dibutyl phthalate (DBP) | 84-74-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 004 | 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) |
| 005 | Diarsenic pentaoxide | 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) |
| 006 | 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) |
| 007 | 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) |
| 008 | Bis(2-ethylhexyl)phthalate (DEHP) | 117-81-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 009 | Lead hydrogen arsenate | 7784-40-9 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 010 | Benzyl butyl phthalate (BBP) | 85-68-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 011 | 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) |
| 012 | Anthracene oil | 90640-80-5 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 013 | Anthracene oil, anthracene paste, distr. Lights | 91995-17-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 014 | Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 015 | Anthracene oil, anthracene-low | 90640-82-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 016 | Anthracene oil, anthracene paste | 90640-81-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|--------------------------------------|--|--|
| 017 | Pitch, coal tar, high-temp. | 65996-93-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 018 | 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 (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight | REACH (Candidate for Authorization) |
| 019 | 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 (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight | REACH (Candidate for Authorization) |
| 020 | 2,4-dinitrotoluene | 121-14-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 021 | Diisobutyl phthalate (DIBP) | 84-69-5 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 022 | Tris(2-chloroethyl)phosphate (TCEP) | 115-96-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 023 | Acrylamide | 79-06-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 024 | Trichloroethylene | 79-01-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 025 | Boric acid | 10043-35-3 11113-50-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 026 | Disodium tetraborate, anhydrous | 1303-96-4 1330-43-4 12179-04-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|-----------------------|--|-------------------------------------|
| 027 | Tetraboron disodium heptaoxide, hydrate | 12267-73-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 028 | Cobalt(II) sulphate | 10124-43-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 029 | Cobalt(II) dinitrate | 10141-05-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 030 | Cobalt(II) carbonate | 513-79-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 031 | Cobalt(II) diacetate | 71-48-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 032 | 2-methoxyethanol | 109-86-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 033 | 2-ethoxyethanol | 110-80-5 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 034 | 2-ethoxyethyl acetate | 111-15-9 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 035 | 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) |
| 036 | Hydrazine | 7803-57-8 302-01-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 037 | 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) |
| 038 | 1,2,3-trichloropropane | 96-18-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 039 | 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) |
| 040 | 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) |
| 041 | Bis(2-methoxyethyl) ether | 111-96-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 042 | Lead dipicrate | 6477-64-1 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 043 | 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) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|------------|--|--|
| 044 | 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) |
| 045 | 2-Methoxyaniline (o-Anisidine) | 90-04-0 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 046 | Trilead diarsenate | 3687-31-8 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 047 | 1,2-dichloroethane | 107-06-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 048 | 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) |
| 049 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 050 | 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) |
| 051 | Lead diazide, Lead azide | 13424-46-9 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 052 | Lead styphnate | 15245-44-0 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 053 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 101-14-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 054 | Phenolphthalein | 77-09-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 055 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 112-49-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 056 | 1,2-dimethoxyethane (ethylene glycol dimethyl ether, EGDME) | 110-71-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 057 | Diboron trioxide | 1303-86-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 058 | Formamide | 75-12-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 059 | Lead(II) bis(methanesulfonate) | 17570-76-2 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 060 | 1,3,5-tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 2451-62-9 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 061 | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC) | 59653-74-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|--|-------------------------------------|---|-------------------------------------|
| 062 | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) | 90-94-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 063 | 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) |
| 064 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5 | Concentration in the constituent article exceeds 1000 ppm* *This condition applies when it contains \geq 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) |
| 065 | [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 \geq 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) |
| 066 | 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 \geq 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) |
| 067 | α,α -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 \geq 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) |
| 068 | Pentacosfluorotridecanoic acid | 72629-94-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 069 | Tricosfluorododecanoic acid | 307-55-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 070 | Henicosfluoroundecanoic acid | 2058-94-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 071 | Heptacosfluorotetradecanoic acid | 376-06-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 072 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 073 | 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) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|--|--|--|
| 074 | 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 trans- stereo 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) |
| 075 | 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) |
| 076 | 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) |
| 077 | Methoxy acetic acid | 625-45-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 078 | 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) |
| 079 | Dibutyltin dichloride (DBTC) | 683-18-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 080 | 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) |
| 081 | 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) |
| 082 | Lead bis(tetrafluoroborate) | 13814-96-5 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 083 | 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) |
| 084 | Lead titanium trioxide | 12060-00-3 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 085 | 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) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|-------------|--|--|
| 086 | 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) |
| 087 | Silicic acid (H ₂ Si ₂ O ₅), 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) |
| 088 | Methyloxirane (Propylene oxide) | 75-56-9 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 089 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 090 | 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) |
| 091 | N-pentyl-isopentylphthalate | 776297-69-9 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 092 | 1,2-diethoxyethane | 629-14-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 093 | 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) |
| 094 | Lead oxide sulfate | 12036-76-9 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 095 | [Phthalato(2-)]dioxotrilead | 69011-06-9 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 096 | Dioxobis(stearato)trilead | 12578-12-0 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 097 | 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) |
| 098 | Lead cyanamidate | 20837-86-9 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 099 | Lead dinitrate | 10099-74-8 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 100 | Pentalead tetraoxide sulphate | 12065-90-6 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 101 | 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) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|--|-------------|--|--|
| 102 | 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) |
| 103 | Tetraethyllead | 78-00-2 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 104 | Tetralead trioxide sulphate | 12202-17-4 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 105 | Trilead dioxide phosphonate | 12141-20-7 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 106 | Furan | 110-00-9 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 107 | Diethyl sulphate | 64-67-5 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 108 | Dimethyl sulphate | 77-78-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 109 | 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) |
| 110 | Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 88-85-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 111 | 4,4'-methylenedi-o-toluidine | 838-88-0 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 112 | 4,4'-oxydianiline and its salts | 101-80-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 113 | 4-aminoazobenzene | 60-09-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 114 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 115 | 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 116 | Biphenyl-4-ylamine | 92-67-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 117 | o-aminoazotoluene (4-o-tolylazo-o-toluidine) | 97-56-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 118 | o-toluidine | 95-53-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 119 | N-methylacetamide | 79-16-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 120 | Cadmium | 7440-43-9 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4 | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|------------|--|--|
| 121 | Cadmium Oxide | 1306-19-0 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4 | REACH (Candidate for Authorization) |
| 122 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 5 | REACH (Candidate for Authorization) |
| 123 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 5 | REACH (Candidate for Authorization) |
| 124 | Dipentyl 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) |
| 125 | 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) |
| 126 | Cadmium sulphide | 1306-23-6 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4 | REACH (Candidate for Authorization) |
| 127 | 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) |
| 128 | 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) |
| 129 | Imidazolidine-2-thione (2-imidazoline-2-thiol) | 96-45-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 130 | Trixylyl phosphate | 25155-23-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 131 | 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) |
| 132 | Lead di(acetate) | 301-04-2 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 3 | REACH (Candidate for Authorization) |
| 133 | Cadmium chloride | 10108-64-2 | Concentration in the constituent article exceeds 1000 ppm [Additional Conditions] Refer to Note 4 | REACH (Candidate for Authorization) |
| 134 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|--|-------------------------------------|--|--|
| 135 | Sodium peroxometaborate | 7632-04-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 136 | Sodium perborate; perboric acid, sodium salt | 15120-21-5 11138-47-9 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 137 | Cadmium fluoride (CdF ₂) | 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) |
| 138 | Cadmium sulphate | 10124-36-4 31119-53-6 | 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) |
| 139 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 140 | Diocetyl tin 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) |
| 141 | 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) |
| 142 | 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) |
| 143 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) | 68515-51-5 68648-93-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 144 | Perfluorononan-1-ic-acid and its sodium and ammonium salts | 375-95-1 21049-39-8 4149-60-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|--|---|--|
| 145 | Nitrobenzene | 98-95-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 146 | 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) |
| 147 | 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) |
| 148 | 1,3-propanesultone | 1120-71-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 149 | Benzo[def]chrysene(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) |
| 150 | p-(1,1-dimethylpropyl)phenol | 80-46-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 151 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt | 335-76-2 3108-42-7 3830-45-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 152 | 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) |
| 153 | 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) |
| 154 | Perfluorohexane-1-sulphonic acid and its salts | 355-46-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 155 | 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) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|--|------------------------|---|--|
| 156 | Chrysene | 218-01-9, 1719-03-5 | 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(CAS No. 218-01-9). This is only applied to excluding the prohibition usage of CMRs shown in Table 1. | REACH (Candidate for Authorization) |
| 157 | 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) |
| 158 | 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) |
| 159 | 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) |
| 160 | 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) |
| 161 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus" TM) [covering any of its individual anti- and syn-isomers or any combination thereof] | - | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 162 | Terphenyl, hydrogenated | 61788-32-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 163 | Octamethylcyclotetrasiloxane (D4) | 556-67-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|--|------------|---|--|
| 164 | 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) |
| 165 | Ethylenediamine (EDA) | 107-15-3 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 166 | Dodecamethylcyclhexasiloxane (D6) | 540-97-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 167 | Disodium octaborate | 12008-41-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 168 | Dicyclohexyl phthalate (DCHP) | 84-61-7 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 169 | Decamethylcyclopentasiloxane (D5) | 541-02-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 170 | Benzo[ghi]perylene | 191-24-2 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 171 | 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) |
| 172 | Pyrene | 129-00-0 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 173 | Phenanthrene | 85-01-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 174 | Fluoranthene | 206-44-0 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 175 | Benzo[k]fluoranthene | 207-08-9 | 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) |
| 176 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 6807-17-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 177 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC) | 15087-24-8 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 178 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | — | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

| No. | Substances | CAS No. | Conditions of reporting | Reference |
|-----|---|-------------|---|-------------------------------------|
| 179 | 4-tert-butylphenol | 98-54-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 180 | 2-methoxyethyl acetate | 110-49-6 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 181 | 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) |
| 182 | Perfluorobutane sulfonic acid (PFBS) and its salts | - | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 183 | Diisohexyl phthalate | 71850-09-4 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 184 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |
| 185 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 119313-12-1 | Concentration in the constituent article exceeds 1000 ppm | REACH (Candidate for Authorization) |

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.

5) The substances fulfill the following additional conditions:

- Applied to the fiber, carpet, or other coated articles of "PFOA, PFOA-salts, PFOA-esters".
- Other than those above, they shall comply with the "Standards of ban" as "PFOA, PFOA-salts, PFOA-esters" defined in Table 1.

3. 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>

- 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)

| 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 |

| Brominated flame retardants (other than PBBs, PBDEs or HBCDD) | CAS No. |
|---|-------------|
| 2,4,6-Tribromo-phenyl-allyl-ether | 3278-89-5 |
| Tribromo-phenyl-allyl-ether, unspecified | 26762-91-4 |
| Bis(methyl)tetrabromo-phthalate | 55481-60-2 |
| Bis(2-ethylhexyl)tetrabromo-phthalate | 26040-51-7 |
| 2-Hydroxy-propyl-2-(2-hydroxy-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 |
|---|--|
| <p>Ozone Depleting Substances in Table 1b</p> | <p>The following cases are exempted:</p> <ul style="list-style-type: none"> - 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. <p>The following substances are exempted from the substances:</p> <ul style="list-style-type: none"> - Substances of Note 1 of Table 1b: <ul style="list-style-type: none"> • HCFCs • Halon-1202 • Bromoethane (Ethyl bromide) • Bromopropane (n-propyl bromide) • Trifluoroiodomethane (Trifluoromethyl iodide) • Chloromethane (Methyl chloride) <p>[Note] If you use HCFCs, please work to reduce the emission and/or the use.</p> |

[Revision record]

| | | |
|---------------|---------------|--|
| May 13, 2010 | (Edition 1) | Created. (Separated from "Fujitsu Group Green Procurement Direction") 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). Deleted 5 Reportable Substances. |
| Jan 24, 2011 | (Edition 1.3) | Added 5 substances to Banned Substances. 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. 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. 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) Added 2 substances as "Reportable Substances" |
| Jan 28, 2016 | (Edition 2.5) | 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) ("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 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 Added one substance as "Reportable Substances" in Table 2 |
| Mar 14, 2018 | (Edition 2.9) | Criteria change of 5 substances in Table 1 Added 7 substances as "Reportable Substances" in Table 2 |
| Aug 24, 2018 | (Edition 3.0) | Deleted one substance as "Banned Substances" in Table 1 Added one substance as "Banned Substances" in Table 1 Change of 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 1 |
| 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 |



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