List of chemical substances designated by FICT

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[Definitions of terms]

| Containment: | The chemical substance is contained in the deliverables. |
|-----------------------|---|
| | Including additions, fills, and mixes resulting from manufacturing processes. |
| Concentration: | Content rate of chemical substances. |
| | The unit is [ppm] (mass ratio). 1 ppm is 1/ 1 million) or [wt%] (mass ratio). 1 wt% is 1/100). |
| | (Refer to the notes in each table for the concept of content rate calculation for each designated chemical substance.) |
| Intentional addition: | The deliberate use of a chemical in the formation of a deliverable, regardless of its content, in order to |
| | provide specific properties, appearance or quality. |
| | Impurities and deposition, incorporation, and formation during the manufacturing process are not included in intentional additions. |
| Material: | Each uniform material, or composite material which can be regarded as uniform, constituting a |
| | deliverable that is placed and formed in a specific position for a specific purpose of use and cannot be further divided in order to achieve the purpose of use. |
| Impurities: | Substances contained in natural raw materials that cannot be completely removed during the |
| | manufacturing process of industrial materials. |
| Preparation: | Mixtures or solutions of several substances (example: adhesive, plating solution, paint) Components (materials, parts, units, accessories, etc.) of FICT Group products or OEM/ODM products |
| Deliverables: | and packaging materials. |
| Chemical product: | Chemicals and/or mixtures. |
| Chemical substance: | A chemical element or compound that either exists in nature or is obtained through a manufacturing process. |
| Mixture: | A mixture of two or more chemicals. |
| Article: | Where the specific shape, appearance or design given during production largely determines the function of the final specification rather than the function of its chemical composition. |
| Electrical and | Equipment that relies on current or electromagnetic fields to operate correctly, and equipment for |
| electronic equipment: | generating, conducting or measuring such current and electromagnetic fields, designed for use at rated voltages not exceeding 1000 volts AC and 1500 volts DC (from RoHSII Directive 2011/65/EU). |
| Constituent articles: | The smallest units of articles constituting a product. |
| constituent articles. | For example, articles identified by the Article flag (*1) in the composition information. |
| | *1 Article flag: Category that identifies the Article corresponding to the SVHC denominator in the EU |
| | REACH Regulation in chemSHERPA(*2). |
| | *2 chemSHERPA: A scheme that Joint Article Management Promotion-consortium (JAMP) provides to |
| | facilitates sharing information on chemical substances in products. |
| | https://chemsherpa.net/english |

1. Prohibited substances

Table 1: Prohibited substances

| No. | Substance name | Inclusion prohibition standards | Notes | Major Cited Laws |
|-----|---|--|---|--|
| 001 | Asbestos | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | REACH Regulation "Restrictions" |
| 002 | Azo colourants and azo dyes which form certain aromatic amines | ① intentional addition prohibition ② The content in the mass of the material is 30 ppm or less. | Of the azo dyes and pigments, those in which amines listed in Table 1a are formed by reductive cleavage of the azo group are covered. Applies only to leather and textile products and their parts that may come into direct contact with human skin for long periods of time. | REACH Regulation "Restrictions" |
| 003 | Cadmium/Cadmium Compounds | intentional addition prohibition The cadmium content in the mass of the material is 100 ppm or less. In the case of packaging materials > (1) In addition, the total content of each of the 4 substances (Note 2) per material shall be 100 ppm or less. | Excluded uses: Table 1e Section 054 Carcinogens, mutagens and reproductive toxicants (CMRs). | REACH Regulation "Restrictions" RoHS Directive China RoHS |
| 004 | Chromium (VI) Compounds | ① intentional addition prohibition ② Chromium content by mass of material Not more than 1000 ppm <leather and="" contact="" in="" leather<br="" products="" skin="" the="" with="">parts in contact with the skin></leather> (1) and less than 3 ppm per total dry weight of leather < In the case of packaging materials > (1) In addition, the total content of each of the 4 substances (Note 2) per material shall be 100 ppm or less. | Section 054 Carcinogens, mutagens and reproductive toxicants (CMRs). | RoHS Directive China RoHS |
| 005 | Lead/Lead Compounds | < Electrical and Electronic Equipment > intentional addition prohibition The content of lead in the mass of the material is 1000 ppm or less. However, the coating of the thermosetting or thermoplastic cord/cable shall not exceed 300 ppm. < In the case of packaging materials > above (1) and four substances per material (Note 2) The total content of these substances shall not exceed (Other than the above) to (2) and If it is possible for a child to put it in the mouth, Lead content by mass of parts less than 500 ppm | excluded uses: table 1e Section 054 Carcinogens, mutagens and reproductive toxicants (CMRs). A child may put it in his mouth if one dimension is less than 5 cm, or if there are removable or protruding parts of that size. | REACH Regulation "Restrictions" RoHS Directive China RoHS California law Proposition 65 |
| 006 | Mercury/Mercury Compounds | intentional addition prohibition The mercury content of the material Not more than 1000 ppm In the case of packaging materials > In addition, the total content of each of the 4 substances (Note 2) per material shall be 100 ppm or less. | Excluded uses: Table 1e | REACH Regulation "Restrictions" RoHS Directive China RoHS |
| 007 | Ozone Depleting Substances (CFCs, HCFCs, HBFCs, Carbon tetrachloride, etc.) | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | Detailed substances: Table 1b | Montreal Protocol EC No. 2037/2000 EC No. 1005/2009 |

| No. | Substance name | Inclusion prohibition standards | Notes | Major Cited Laws |
|-----|--|--|---|--|
| 008 | Perfluorooctane sulfonic acid (PFOS) and its derivatives | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process The content must be less than or equal to the following: Content in raw materials: 0.1 wt% Content of chemicals: 0.001 wt% In the coated material Content: 1 ug/m2 | | POPs Rules |
| 009 | Polybrominated Biphenyls (PBBs) | intentional addition prohibition The content in the mass of the material is 1000 ppm or less. | | RoHS Directive China RoHS |
| 010 | Polybrominated Diphenylethers (PBDEs) | electrical and electronic equipment (1) intentional addition prohibition (2) Prohibition of adhesion, mixing, and formation during the manufacturing process (3) The content in the mass of the material is 1000 ppm or less. Percentage of molding quality other than | | RoHS Directive China RoHS |
| | | electrical and electronic equipment (including packaging materials) Not more than 500 ppm | | POPs Rules |
| 011 | Polychlorinated Biphenyls (PCBs) and specific substances | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | Example:Table 1c | POPs Rules |
| 012 | Polychlorinated Terphenyls (PCTs) | intentional addition prohibition The content in the mass of the material is 50 ppm or less. | | REACH Regulation "Restrictions" |
| 013 | Short-chain chlorinated paraffins (C 10 to C 13) | intentional addition prohibition The content in the mass of the material is 1000 ppm or less. | | POPs Rules Swiss law Norwegian law |
| 014 | Tri-substituted organostannic compounds (except for TBTO) | The tin content of the parts by mass is 1000 ppm or less. | | REACH Regulation "Restrictions" |
| 015 | Tributyl Tin Oxide (TBTO) | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law REACH Regulation "Restrictions" |
| 016 | Dimethylfumarate (DMF) CAS No 624 -49 -7 | 1 Content of parts by mass is 0.1 ppm or less | | REACH Regulation "Restrictions" |
| 017 | Dibutyltin compounds (DBT) | ① The tin content of the parts by mass is 1000 ppm or less. | | REACH Regulation "Restrictions" |
| 018 | Dioctyltin compounds (DOT) | ① The tin content of the parts by mass is 1000 ppm or less. | For use in textile products and parts thereof that may come into direct contact with human skin and for use as two-component room temperature curing mold kits | REACH Regulation "Restrictions" |
| 019 | Fluorinated greenhouse gases (HFC, PFC, SF6) | ① intentional addition prohibition ② Prohibition of adhesion, mixing, and formation during the manufacturing process | Detailed Substances: Table 1d Unless a closed recovery scheme for the target substance has been established | EU Regulation No.842/2006 |
| 020 | Formaldehyde | ① intentional addition prohibition ③ The content in the mass of the material is 75 ppm or less. | Applicable only when used in textile products and parts thereof. Section 054 Carcinogens, mutagens and reproductive toxicants(CMRs). | Austrian law Lithuanian law |

| No. | Substance name | Inclusion prohibition standards | Note | Major Cited Laws |
|-----|--|---|--|---|
| 021 | Tris (2,3-dibromopropyl) phosphate (TRIS) CAS No 126-72-7 | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | Applies only to textile products and their parts that may come into direct contact with human skin | REACH Regulation "Restrictions" |
| 022 | Tris (1-aziridinyl) phosphine oxide (TEPA) CAS No 545-55-1 | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | Applies only to textile products and their parts that may come into direct contact with human skin | REACH Regulation "Restrictions" |
| 023 | Polychlorinated naphthalenes (more than 1 chlorine atom) | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law POPs Rules |
| 024 | Hexachlorobenzene | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 025 | Aldrin | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 026 | Dieldrin | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 027 | Endrin | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 028 | DDT Chlorophenothane | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 029 | Chlordanes | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 030 | N, N '-ditolyl-p-phenylenediamine, N-tolyl-N '-xylyl-p-phenylenediamine and N, N '-dixylyl-p-phenylenediamine | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 031 | 2,4,6-tri-tert-butylphenol | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 032 | Toxaphene | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 033 | Mirex | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 034 | Kelthane (Dicofol) | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law Turkish law |
| 035 | Hexachlorobutadiene (HCBD) CAS No. 87-68-3 | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law U.S. Toxic Substances Regulations Law (TSCA) |
| 036 | Phenol, 2- (2H-benzotriazol -2 -yl) - 4,6-bis (1,1-dimethylethyl) -; 2 - benzotriazol -2 -yl -4, 6 -di-tert - butylphenol (UV -320) | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 037 | Pentachloobenzene | (1) intentional addition prohibition (2) Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 038 | α-Hexachlorocyclohexane | To intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 039 | β-Hexachlorocyclohexane | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 040 | γ-Hexachlorocyclohexane | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |

| No. | Substance name | Inclusion prohibition standards | Notes | Major Cited Laws |
|-----|--|--|---|------------------------------------|
| 041 | Chlordecone | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 042 | Nickel (CAS No 7440-02-0) / Nickel compounds | Prohibition of use as stainless steel, nickel alloy and nickel plating | It covers the following: ① Exterior surface of keyboard and mouse as finished product ② Palm rest of notebook PC and outermost surface of housing of cellular phone ③ Exterior surface of touch panel type liquid crystal panel | REACH Regulation "Restrictions" |
| 043 | Polycyclic aromatic hydrocarbons (PAH) | intentional addition prohibition The content must be less than or equal to the following: For each rubber or plastic component 0.0001 wt% | Detailed substances: Table 1f Applies only to rubber or plastic components used in the following areas of direct and prolonged or short-term repeated contact with the skin or oral cavity of the human body ① Exterior surface of keyboard and mouse ② Palm rest of notebook PC and outermost surface of housing of cellular phone ③ Exterior surface of touch panel type liquid crystal panel Section 054 Carcinogens, mutagens and reproductive toxicants (CMRs). | REACH Regulation "Restrictions" |
| 044 | Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds | < Molded product/mixture > ① intentional addition prohibition ② In molding quality quantities or mixtures • Not more than 25 ppb. • In the case of PFOA-related compounds (Note 3), up to one must be less than or equal to 1000 ppb in combination | Excluded uses: Table 1e | REACH Regulation "Restrictions" |
| 045 | hexabromocyclododecane (HBCDD) | < Part > ① intentional addition prohibition ② Prohibition of adhesion, mixing, and formation during the manufacturing process ③ The content in the mass of the material shall be 0.01 wt% or less. < Chemicals > The content is 0.01 wt% or less. | Detailed Substances: Table 1h | POPs Rules |
| 046 | Endosulfan | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law |
| 047 | Bis (2-ethylhexyl) phthalate (DEHP) | < Electrical and Electronic Equipment > ① intentional addition prohibition ② The content in the mass of the material is 1000 | | |
| 048 | Butyl benzyl phthalate (BBP) | ppm or less. < Other than electrical and electronic equipment (including packaging materials) > | | RoHS Directive |
| 049 | Dibutyl phthalate (DBP) | intentional addition prohibition In plasticized material (Note 4): The total content of each of the four substances Less than 1000 ppm | | |

| No. | Substance name | Inclusion prohibition standards | Notes | Major Cited Laws |
|-----|---|--|--|--|
| 050 | Diisobutyl phthalate (DIBP) | | | |
| 051 | Pentachlophenol, Pentachlophenol- salts, and Pentachlophenol-esters | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | Kashin Law Turkish law |
| 052 | Cobalt dichloride | Silica Gel and Other Chemicals Content is less than 0.01 wt%. | | REACH Regulation "Restrictions" |
| 053 | 4,4 '-isopropylidenediphenol; bisphenol A CAS No. 80-05-7 | < Thermal Paper > The content of the heat-sensitive paper is less than 0.02 wt%. | | REACH Regulation "Restrictions" |
| 054 | Certain substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR substances) | ① intentional addition prohibition ② The content ratio in the mass of the material is less than the threshold value of Appendix 1i. | This paragraph applies to textiles that contact human skin to the same extent as clothing and footwear under normal or reasonably foreseeable conditions of use | REACH Regulation "Restrictions" |
| 055 | Bis (pentabromophenyl) ether (decabromodiphenyl) ether; decaBDE) CAS No. 1163-19-5 | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | This paragraph does not apply if:. • Content derived from recycled plastics and meeting the conditions of paragraph 010. of this table | Toxic Substances Control Act (TSCA) |
| 056 | Phenol, isopropylated, phosphate (3: 1), PIP (3: 1) CAS No. 68937-41-7 | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | This paragraph does not apply if Adhesive and sealant applications (until January 5, 2025) Lubricating oil and grease application Content derived from recycled plastics | Toxic Substances Control Act (TSCA) |
| 057 | Pentachlorothiophenol (PCTP) CAS No. 133-49-3 | The content in the molding quality amount is 1 wt% or less. | | Toxic Substances Control Act (TSCA) |
| | Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C 14 PFCAs), their salts and C9-C 14 PFCAs -related substances | In molding quality quantities or mixtures • In the sum of C9-C 14 PFCAs and their salts Less than 25 ppb • Total 260 ppb of C9-C 14 PFCA-related substances less than | Excluded uses: Table 1e | REACH Regulation "Restrictions" |
| 059 | Perfluorohexane sulfonic acid (PFHxS) including its salts and related substances | intentional addition prohibition In molding quality volumes or mixtures The sum of PFHxS and its salts is less than 25 ppb. Less than 1000 ppb in total for PFHxS-related substances | | Swiss law, etc. |
| | Mineral oil aromatic hydrocarbons (MOAH) comprising from 1 to 7 aromatic rings Hydrocarbons saturated with mineral oil (MOSH) containing 16 to 35 carbon atoms | < In Packaging Materials and Printing Ink > ① An aromatic hydrocarbon mineral oil (MOAH) consisting of 1 ~ 7 aromatic rings shall be no more than 1%. ② Aromatic hydrocarbon mineral oils (MOAH) with 1 ~ 2 aromatic rings and saturated hydrocarbon mineral oils with 16 ~ 35 carbon atoms (MOSH) 0.1% the state of being below ③ The aromatic hydrocarbon mineral oil (MOAH) consisting of 3 ~ 7 aromatic rings shall not exceed 1 ppm. | (1) is September 30, 2022 hereafter applied (2) (3) is July 1, 2024 hereafter applied (Addendum below) Labels attached to packaging materials are subject to this rule. Attach directly to the target article This does not apply to labels. Printed matter is for paper. | French law |

| No. | Substance name | Inclusion prohibition standards | Notes | Major Cited Laws |
|-----|---|---|-------|---------------------|
| 61 | | <thermal paper=""> Concentration in the thermal paper must be less than 0.02 % by weight.</thermal> | | Swiss law |
| 62 | 2-benzotriazol-2-yl-4, 6-di-tert-pentylphenol (UV-328) CAS No. 25973-551 | intentional addition prohibition Prohibition of adhesion, mixing, and formation during the manufacturing process | | POPs Rules |
| 63 | | ① intentional addition prohibition ②Prohibition of adhesion, mixing, and formation during the manufacturing process | | POPs Rules |
| | | | | |

[Notes to Table 1]

1. Deliverables must satisfy all of the above "containment prohibition standards".

The calculation of the content of substances for which numerical values are set in the "Standards for Prohibition of Content" is as follows.

- In this section, the denominator for calculating the content ratio is the mass of the material or the amount of the constituent molding quality, and which is used for each substance is based on the description of the content prohibition standard in Table 1.
- In the case of composite substances or materials, the materials shall be:.
 - Compounds, polymer alloys, metal alloys, etc.
 - For raw materials such as paints, adhesives, inks, pastes, resin polymers, glass powders, ceramic powders, and the like, they are ultimately formed according to their intended use.
 - Example:
 - The paint and adhesive shall be dried and cured.
 - The resin polymer is in a molded state.
 - Post-Molding conditions of glass and ceramics
 - A single layer of paint, printing, plating, etc. In the case of multiple layers, the state of each single layer is obtained.
 - For packaging materials, cardboard base paper, adhesive, tape, ink, etc.
- The molecule used to calculate the content is the mass of the chemical substance to be calculated. However, in the case of a metal compound, the mass of only the target metal component is used as a molecule.
- 2. Four substances for packaging materials:

Cadmium/Cadmium compounds, hexavalent chromium compounds, lead/lead compounds, and mercury/mercury compounds

3. PFOA related substances:

 \geq

a substance (including salts and polymers) that decomposes into PFOA and has a linear or branched perfluoroheptyl group with part (C7F 15) C as one of its structural elements.

Not applicable to the following related substances

- C8F 17 X where X is F (fluorine), Cl (chlorine), and Br (bromine).
- CF3 [CF2] n-R ', R' = any group, fluoropolymer covered by n > 16.

• Perfluoroalkylcarboxylic acids having 8 or more perfluorinated carbon atoms (including salts, esters, halides and anhydrides thereof).

• Perfluoroalkanesulfonic acid and perfluorophosphonic acid having \geq 9 perfluorinated carbon atoms (including salts, esters, halides and anhydrides thereof).

- PFOS/PFOS analogous compounds described in Table No. 008.
- 4. Plasticized material means a homogeneous material as follows:.
 - Vinyl chloride (PVC), polyvinylidene chloride (PVDC), polyvinyl acetate (PVA), polyurethane
 - other polymers except silicone rubber and natural latex coatings
 - (Polymer foam, including rubber materials)
 - Surface coatings, anti-skid coatings, finishes, decals, printed designs
 - Adhesives, sealants, paints and inks

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

| Substance name | 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

| | Substance name | CAS No. Notes |
|---------------------|----------------|---------------|
| | 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 |
| | | 76-13-1 |
| CFCs | CFC -113 | 354-58-5 |
| Chlorofluorocarbons | | 26523-64-8 |
| | | 76-14-2 |
| | CFC -114 | 1320-37-2 |
| | | 374-07-2 |
| | CFC -115 | 76-15-3 |
| | | 422-78-6 |
| | CFC -211 | 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 |
| | LrC -214 | 2268-46-4 |

| | Substance name | CAS No. | Notes |
|-------------------------------|---------------------------------------|--|--------------------|
| CFCs Chlorofluorocarbons | CFC -215 | 1599-41-3 76-17-5 4259-43-2 1652-81-9 812-30-6 | |
| | CFC -216 CFC -217 | 661-97-2 422-86-6 | |
| | Halon -1011 (Bromochloromethane) | 74-97-5 | |
| | Halon -1202 | 75-61-6 | Refer to Note 1 |
| | Halon -1211 | 353-59-3 | |
| Halons | 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 (Methy | lchloroform) | 71-55-6 | |
| Bromomethane (Methyl bron | nide) | 74-83-9 | |
| Bromoethane (Ethyl bromide |) | 74-96-4 | Note 1 |
| 1 – Bromopropane (n-propyl | bromide) | 106-94-5 | Note 1 |
| Trifluoroiodomethane (Trifluo | promethyl iodide) | 2314-97-8 | Note 1 |
| Chloromethane (Methyl chlo | ride) | 74-87-3 | Note 1 |
| | 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 | |
| HBFCs | Bromotetrafluoroethane (HBFC -124 B1) | 124-72-1 | |
| Hydrobromofluorocarbons | 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) | | |

| | Substance name | CAS No. | Notes |
|----------------------------------|--|--|-------|
| | Pentabromodifluoropropane (HBFC -222 B5) | - | |
| | Tetrabromotrifluoropropane (HBFC -223 B4) | - | |
| | Tribromotetrafluoropropane (HBFC -224 B3) | 666-48-8 | |
| | Dibromomentafluoropropane (HBFC -225 B2) | 431-78-7 | |
| | Bromohexafluoropropane (HBFC -226 B1) | 2252-78-0 | |
| | Pentabromofluoropropane (HBFC -231 B5) | - | |
| | Tetrabromodifluoropropane (HBFC -232 B4) | 148875-98-3 | |
| | Tribromotrifluoropropane (HBFC -233 B3) | 421-90-9 | |
| | Dibromotetrafluoropropane (HBFC -234 B2) | 460-86-6 | |
| HBFCs Hydrobromofluorocarbons | Bromopentafluoropropane (HBFC -235 B1) | 460-88-8 22692-16-6 26391-11-7 422-01-5 53692-43-6 53692-44-7 677-52-1 677-52-1 677-53-2 679-94-7 | |
| | 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 | |

| | Substance name | CAS No. | Notes |
|-----------------------------------|--|--|--------|
| HBFCs Hydrobromofluorocarbons | 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 | |
| | HCFC -21 | 75-43-4 | Note 1 |
| | HCFC -22 | 75-45-6 | Note 1 |
| | HCFC -31 | 593-70-4 | Note 1 |
| | HCFC -121 | 134237-32-4 354-11-0 354-14-3 | Note 1 |
| | HCFC -122 | 41834-16-6 354-21-2 354-15-4 354-12-1 | Note 1 |
| | HCFC -123 | 34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 | Note 1 |
| | HCFC -124 | 63938-10-3 2837-89-0 354-25-6 | Note 1 |
| HCFCs Hydrochlorofluorocarbons | HCFC -131 | 27154-33-2 134237-34-6 359-28-4 811-95-0 2366-36-1 | Note 1 |
| | HCFC -132 | 25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1 | Note 1 |
| | HCFC -133 | 1330-45-6 431-07-2 75-88-7 421-04-5 | Note 1 |
| | HCFC -141 | 1717-00-6 25167-88-8 430-57-9 430-53-5 | Note 1 |
| | HCFC -142 | 25497-29-4 338-65-8 75-68-3 338-64-7 55949-44-5 | Note 1 |
| | HCFC -151 | 110587-14-9 762-50-5 1615-75-4 | Note 1 |

| | Substance name | CAS No. | Notes |
|--------------------------|----------------|---|--------|
| | HCFC -221 | 134237-35-7 29470-94-8 422-26-4 | Note 1 |
| | HCFC -222 | 134237-36-8 422-49-1 422-30-0 116867-32-4 | Note 1 |
| | HCFC -223 | 134237-37-9 422-52-6 422-50-4 | Note 1 |
| | HCFC -224 | 134237-38-0 422-54-8 422-53-7 422-51-5 | Note 1 |
| | 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 | Note 1 |
| HCFCs | HCFC -226 | 134308-72-8 431-87-8 28987-04-4 | Note 1 |
| Hydrochlorofluorocarbons | HCFC -231 | 134190-48-0 421-94-3 | Note 1 |
| | HCFC -232 | 134237-39-1 460-89-9 | Note 1 |
| | HCFC -233 | 134237-40-4 7125-83-9 | Note 1 |
| | HCFC -234 | 127564-83-4 425-94-5 | Note 1 |
| | HCFC -235 | 134237-41-5 460-92-4 108662-83-5 | Note 1 |
| | HCFC -241 | 134190-49-1 666-27-3 | Note 1 |
| | HCFC -242 | 134237-42-6 460-63-9 | Note 1 |
| | HCFC -243 | 134237-43-7 7125-99-7 338-75-0 460-69-5 116890-51-8 | Note 1 |
| | HCFC -244 | 134190-50-4 679-85-6 421-75-0 | Note 1 |
| | HCFC -251 | 134190-51-5 818-99-5 421-41-0 | Note 1 |

| | Substance name | CAS No. | Notes |
|-----------------------------------|----------------|---|--------|
| | HCFC -252 | 134190-52-6 819-00-1 | Note 1 |
| | HCFC -253 | 134237-44-8 460-35-5 26588-23-8 | Note 1 |
| HCFCs Hydrochlorofluorocarbons | HCFC -261 | 134237-45-9 7799-56-6 420-97-3 127404-11-9 | Note 1 |
| | HCFC -262 | 134190-53-7 420-99-5 102738-79-4 421-02-3 | Note 1 |
| | HCFC -271 | 134190-54-8 420-44-0 430-55-7 | Note 1 |

[Notes to Table 1b]

1) Excluding from Prohibited Substances in Manufacturing designated in Table 4

Table 1c: Polychlorinated biphenyls (PCBs) and specified substitutes

| Substance name | |
|--|-----------------|
| Polychlorinated Biphenyls (all isomers and congeners) | 1336-36-3, etc. |
| Monomethyl-tetrachloro-diphenyl methane (Ugilec 141) | |
| Monomethyl-dichloro-diphenyl methane (Ugilec 121, Ugilec 21) | |
| Monomethyl-dibromo-diphenyl methane (DBBT) | |

Table 1d: Fluorinated greenhouse gases (HFC, PFC, SF6)

| Substance name | | CAS No. |
|---------------------------|---|-----------|
| | Carbon tetrafluoride (Perfluoromethane) | 75-73-0 |
| | Perfluoroethane Hexafluoroethane | 76-16-4 |
| | Perfluoropropane (Octafluoropropane) | 76-19-7 |
| PFCs (Perfluorocarbons) | Perfluorobutane (Decafluorobutane) | 355-25-9 |
| | Perfluoropentane (Dodecafluoropentane) | 678-26-2 |
| | Perfluorohexane (Tetradecafluorohexane) | 355-42-0 |
| | Perfluorocyclobutane | 115-25-3 |
| Sulfur Hexafluoride (SF6) | | 2551-62-4 |
| | Trifluoromethane (HFC-23) | 75-46-7 |
| HFCs (Hydrofluorocarbons) | Difluoromethane (HFC-32) | 75-10-5 |
| | Methyl fluoride (HFC-41) | 593-53-3 |

| Substance name | | CAS No. |
|--------------------|---|-------------|
| | 2H, 3H-Decafluoropentane (HFC-43-10 mee) | 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 |
| IFCs | 2H-Heptafluoropropane (HFC-227ea) | 431-89-0 |
| lydrofluorocarbons | 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: Excluded uses prohibited from inclusion

| No. | Substance name | Excluded use (Note 1) | |
|-----|---|---|--|
| 003 | Cadmium/Cadmium Compounds | 8 (b) -1 Cadmium and its compounds in electrical contacts used below circuit breaker heat sensing control Thermal Motor Protector (Sealed Thermal Motor Protector) Excluding -) AC switches rated as follows: 6 A or more at 250 V AC or more, or 12 A or more at 125 V or more AC DC switch rated at 20 A or greater at 18 V DC or greater Switches for use at voltage source frequencies of 200 Hz or higher (See Note 2 for prohibited dates) 13 (b) - Cadmium in striking optical filter glass types (see note 2 for prohibition dates) * exclusion number 39 (not used in this specification), except for those applications falling under exclusion 39 * from the Appendix: Cadmium in color change II-VI compounds semiconductor LEDs (cadmium < 10 µg/mm2 emitting area) for illumination or display system applications | |
| | | (III) (See Note 2 for prohibited dates) | |
| | | 5 (b) Lead in glass of fluorescent tubes: 0.2 wt% or less 6 (a) -1 Lead in machining steels up to 0.35 wt% and lead in batch hot dip galvanized steel up to 0.2 wt% as alloy components (see note 2 for prohibition dates) 6 (b) -1 Lead up to 0.4 wt% of lead contained in aluminum materials as an alloy component when | |
| | | recycled from waste aluminum containing lead (see note 2 for the date of prohibition) 6 (b) -II Lead up to 0.4 wt% contained in aluminum materials for machining as an alloy component (See Note 2 for prohibited dates) | |
| | | 6 (c) Lead in copper alloys up to 4 wt% (see note 2 for the date of prohibition) | |
| | | ^{7 (a)} Lead in high melting point solders (i.e. lead-based alloys containing 85% or more lead by weight) (see note 2 for prohibition dates) | |
| | | 7 (c) -I Lead, e.g. piezo devices, glass or ceramic matrix compounds (see note 2 for prohibition dates) contained in glass or electrical and electronic components in ceramics other than dielectric ceramics in capacitors | |
| 005 | Lead/Lead Compounds | ^{7 (c) -II} Lead in dielectric ceramics in capacitors for voltages above 125 V AC or 250 V DC | |
| | | 13 (a) Lead in white glass used in optical equipment (see note 2 for prohibition dates). | |
| | | 13 (b) - (l) Lead in ion-coloured optical filter glass types (see note 2 for prohibition dates) | |
| | | 13 (b) - (III) Lead in glazes for reflective standards (see note 2 for prohibition dates) | |
| | | 15 (a) Lead in the solder necessary for reliable electrical connections between the internal semiconductor die and the carrier of an integrated circuit package (flip-chip) when at least one of the following criteria applies: 90 nm or greater semiconductor technology node In any semiconductor technology node, a single die size 300 mm2 or more 300 mm2 or larger die or 300 mm2 or larger silicon interposer Stacked die package having — | |
| 044 | Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds | Photographic film coating and Photolithography or Etching process in semiconductor manufacturing (Prohibited for FICT Group from January 4, 2025.) | |
| 058 | Perfluorocarboxylic acids with 9 ~ 14 carbon atoms in the chain (C9-C 14 PFCAs), their salts, and C9-C 14 PFCAs | Photographic film coating and Photolithography or Etching process in semiconductor manufacturing (Prohibited for FICT Group from January 4, 2025.) | |

[Notes to Table 1e]

1) The numbers in the table are the numbers of exemptions listed in the RoHS Directive Official Gazette.

2) As the Commission is considering the renewal of the exemption, it shall remain in force until at least the official gazette of the renewal is published.

Table 1f: Polycyclic Aromatic Hydrocarbons (PAH)

| Substance name | 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)

| Substance name | CAS No. |
|-------------------------------------|-------------|
| | 25637-99-4 |
| | 4736-49-6 |
| | 65701-47-5 |
| | 138257-17-7 |
| | 138257-18-8 |
| Hexabrocyclododecane | 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 |

| No. | Substance name | Threshold Level (* 1) |
|-----|--|--|
| 1 | Cadmium and its compounds | 1 ppm as cadmium metal |
| 2 | Chromium VI compounds | 1 ppm as hexavalent chromium |
| 3 | Arsenic compounds | 1 ppm as arsenic metal |
| 4 | Lead and its compounds | 1 ppm as lead metal |
| 5 | Benzene | 5 ppm |
| 6 | Benz [a] anthracene | |
| 7 | Benz [b] fluoranthene | |
| 8 | Benzo [a] pyrene; Benzo [def] chrysene | |
| 9 | Benzo [e] pyrene | |
| 10 | Benzo [j] fluoranthene | |
| 11 | Benzo [k] fluoranthene | 1 ppm |
| 12 | Chrysene | |
| 13 | Dibenz [a, h] anthracene | |
| 14 | p- (trichloromethyl) chlorobenzene α, α, α, 4-tetrachlotropoluene; p-chlorobenzotrichloride | |
| 15 | α, α, α-trichloroethylene; benzotrichloride | |
| 16 | α-chlorotoluene; benzyl chloride | |
| 17 | Formaldehyde | 75 ppm |
| 18 | 1,2-benzenedicarboxylic acid; di-C6 -8 branched alkylesters, C7-rich | |
| 19 | Bis (2-methoxyethyl) phthalate | 1000 mm |
| 20 | Diisopentylphthalate | 1000 ppm Individual, in combination with other phthalates in this table (No. 18 \sim 22), or in combination with other |
| 21 | Di-n-pentyl phthalate (DPP) | phthalates (* 2) |
| 22 | Di-n-hexyl phthalate (DnHP) | |

Table 1i: Standards for banning the use of carcinogens, mutagens and reproductive toxicants (CMRs)

| No. | Substance name | Threshold Level (* 1) |
|-----|--|-----------------------|
| 23 | N-methyl -2 pyrrolidone; 1-methyl -2 pyrrolidone (NMP) | |
| 24 | N, N-dimethylacetamide (DMAC) | 3000 ppm |
| 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-dienylidenemethylene) dianilinehydrochloride; C.I. Basic Red9 | |
| 28 | [4- [4,4 ' -bis (dimethylamino) benzhydrylidene] Cyclohexa -2, 5-dien -1 -ylidene] dimethylammonium chloride; C.I. Basic Violet 3 with ≥ 0, 1% of Michler's ketone (EC no. 202-027-5) | 50 ppm |
| 29 | 4-chloro-o-toluidinium chloride | |
| 30 | 2-Naphthylammonium acetate | |
| 31 | 4-methoxy-m-phenyl diammonium sulfate; 2,4-diaminoanisole sulphate | 30 ppm |
| 32 | 2,4,5-trimethylaniline hydrochloride | |
| 33 | Quinoline | 50 ppm |

*(a) Calculation method of metal conversion (Reference)

Example) Cadmium sulfite in terms of cadmium metal

(Content of Cadmium Sulfite) × (Atomic Weight of Cadmium) ÷ (Molecular Weight of Cadmium Sulfite) = (Content of Cadmium Sulfite) × 112.4 ÷ 192.5

*2 For substances in Part 3 of Annex VI to EC Regulation No 1272/2008 (EU CLP Regulation) for which the hazard class is carcinogenic, germ cell mutagenicity or reproductive toxicity category 1A or 1B. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008

https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1550794756233&uri=CELEX:32008R1272 [External Link]

2. Reported substances contained

Table 2: Reported Substances

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|------------|--|--|
| 001 | Anthracene | 120-12-7 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 002 | (4,4 '-methylenedianiline and 4,4' -MDA) 4,4 '-Diaminodiphenylmethane (4,4' -MDA) | 101-77-9 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 003 | Dibutyl phthalate (DBP) | 84-74-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 004 | Cobalt dichloride | 7646-79-9 | In the constituent molding quality Exceed 1000 ppm However, these standards apply to substances other than the inclusion prohibition standards for cobalt dichloride shown in Table 1. | REACH Regulation 'Candidate substances for authorisation ' |
| 005 | Arsenic pentoxide | 1303-28-2 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 006 | Diarsenic trioxide | 1327-53-3 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 007 | 5-tert-butyl -2, 4, 6-trinitro-m-xylene (Musk xylene) | 81-15-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 008 | Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 009 | Lead hydrogen arsenate | 7784-40-9 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 010 | Benzyl butyl phthalate (BBP) | 85-68-7 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 011 | Triethyl arsenate | 15606-95-8 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 012 | Anthracene oil | 90640-80-5 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 013 | Anthracene oil, anthracene paste, distn. Lights | 91995-17-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 014 | Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 015 | Anthracene oil, anthracene-low | 90640-82-7 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 016 | Anthracene oil, anthracene paste | 90640-81-6 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|--------------------------|--|--|
| 017 | Pitch, coal tar, high-temp. | 65996-93-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 018 | Aluminosilicate, Refractory Ceramic Fibres | - | In the constituent molding quality Exceed 1000 ppm However, aluminosilicate refractory ceramic fibres shall comply with the requirements set out in Table 3.1 of Part 3 of Annex VI to EC Regulation No. 1272/2008 with the requirements of Index No. 650 - 017 - 00 Subsumed as -8 and meeting the following 3 conditions:. (a) Aluminum oxide and silicon oxide exist as the main components in the variable concentration range in the fiber. (b) A fiber of which the value obtained by subtracting the value of twice the standard error from the length-weighted geometric mean diameter of the fiber is 6 μm or less (c) The total concentration of alkali metal oxides and alkaline earth metal oxides (Na2O + K2O + CaO + MgO + BaO) is less than 18 wt%. | REACH Regulation 'Candidate substances for authorisation ' |
| 019 | Zirconia aluminosilicate, Refractory Ceramic Fibres | - | In the constituent molding quality Exceed 1000 ppm However, zirconia aluminosilicate refractory ceramic fibres shall comply with the requirements of Table 3.1 of Part 3 of Annex VI to EC Regulation No. 1272/2008 with the requirements of Index No. 650 - 017 - 00 Subsumed as -8 and meeting the following 3 conditions:. (a) Aluminum oxide, silicon oxide, and zirconium oxide are present as major components in the fiber in a variable concentration range. (b) A fiber of which the value obtained by subtracting the value of twice the standard error from the length-weighted geometric mean diameter of the fiber is 6 μm or less (c) The total concentration of alkali metal oxides and alkaline earth metal oxides (Na2O + K2O + CaO + MgO + BaO) is less than 18 wt%. | REACH Regulation 'Candidate substances for authorisation ' |
| 020 | 2,4-dinitrotoluene | 121-14-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 021 | Diisobutyl phthalate (DIBP) | 84-69-5 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 022 | Tris (2-chloroethyl) phosphate (TCEP) | 115-96-8 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 023 | Acrylamide | 79-06-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 024 | Trichlorethylene | 79-01-6 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 025 | Boric acid | 10043-35-3 11113-50-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|--------------------------------------|---|--|
| 026 | Disodium tetraborate, anhydrous | 1303-96-4 1330-43-4 12179-04-3 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 027 | Tetraboron disodium heptaoxide, hydrate | 12267-73-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 028 | Cobalt (II) sulfate | 10124-43-3 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 029 | Cobalt nitrate | 10141-05-6 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 030 | Cobalt (II) carbonate | 513-79-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 031 | Cobalt acetate | 71-48-7 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 032 | 2-methoxyethanol | 109-86-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 033 | 2-ethoxyethanol | 110-80-5 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 034 | 2-ethoxyethyl acetate | 111-15-9 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 035 | 1,2 - Benzenedicarboxylic acid, di-C7 -11 - branched and linear alkyl esters (DHNUP) | 68515-42-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 036 | Hydrazine | 7803-57-8 302-01-2 10217-52-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 037 | 1-methyl-2-pyrrolidone | 872-50-4 | In the constituent molding quality Exceed 1000 ppm However, the inclusion of the CMRs listed in Table 1, paragraph 054. Applicable to other than prohibited standards | REACH Regulation 'Candidate substances for authorisation ' |
| 038 | 1,2,3-trichloropropane | 96-18-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 039 | 1,2-Benzenedicarboxylic acid; di-C6 -8 branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 040 | Calcium arsenate | 7778-44-1 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 041 | Bis (2-methoxyethyl) ether | 111-96-6 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|------------|--|--|
| 042 | Lead dipicrate | 6477-64-1 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 043 | N, N-Dimethylacetamide (DMAC) | 127-19-5 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 044 | Arsenic acid | 7778-39-4 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 045 | 2-Methoxyaniline (o-Anisidine) | 90-04-0 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 046 | Trilead diarsenate | 3687-31-8 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 047 | 1,2-dichloroethane | 107-06-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 048 | 4- (1,1,3,3-tetramethylbutyl) phenol (4-tert-Octylphenol) | 140-66-9 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 049 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 050 | Bis (2-methoxyethyl) phthalate | 117-82-8 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 051 | Lead diazide, Lead azide | 13424-46-9 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|------------|---|--|
| 052 | Lead styphnate | 15245-44-0 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 053 | 2,2 '-dichloro -4, 4' -methylenedianiline (MOCA) | 101-14-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 054 | Phenolphthalein | 77-09-8 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 055 | 1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme) | 112-49-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 056 | 1,2-Dimethoxyethane (Ethylene glycol dimethyl ether, EGDME) | 110-71-4 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 057 | Diboron trioxide | 1303-86-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 058 | Formamide | 75-12-7 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 059 | Lead (II) bis (methanesulfonate) | 17570-76-2 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 060 | 1,3,5-Tris (oxiran -2 ylmethyl) -1,3,5-triazinane -2, 4,6-trione (TGIC) | 2451-62-9 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 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 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 062 | 4,4 '-bis (dimethylamino) benzophenone (Michler's ketone) | 90-94-8 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 063 | N, N, N', N' -tetramethyl -4, 4'- Methylenedianiline (Michler's base) | 101-61-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|------------|--|---|
| 064 | [4- [[4-anilino -1 naphthyl] [4- (dimethyl amino) phenyl] methylene] cyclohexa -2, 5 - dien -1 ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5 | In the constituent molding quality Exceed 1000 ppm However, only when the product contains $\ge 0.1\%$ of the Miller ketone (CAS No. 90 -94 -8) or the mirror base (CAS No. 101 -61 -1) (1000 ppm) | REACH Regulation 'Candidate substances for authorisation ' |
| 065 | [4- [4,4 '-bis (dimethylamino) benzhydrylidene] cyclohexa -2, 5-dien -1 -ylidene] dimethylammonium chloride (C.I. Basic Violet3) | 548-62-9 | In the constituent molding quality Exceed 1000 ppm However, only when the product contains $\geq 0.1\%$ of the Miller ketone (CAS No. 90 -94 -8) or the mirror base (CAS No. 101 -61 -1) (1000 ppm) In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 066 | 4,4'-bis (dimethylamino) -4''- (methylamino) trityl alcohol | 561-41-1 | In the constituent molding quality Exceed 1000 ppm However, only when the product contains $\geq 0.1\%$ of the Miller ketone (CAS No. 90 -94 -8) or the mirror base (CAS No. 101 -61 -1) (1000 ppm) | REACH Regulation 'Candidate substances for authorisation ' |
| 067 | α, α-Bis [4- (dimethylamino) phenyl] -4 (phenylamino) naphthalene -1- methanol (C.I. Solvent Blue 4) | 6786-83-0 | In the constituent molding quality Exceed 1000 ppm However, only for mirror ketones (CAS No. 90 -94 -8) or mirror bases (CAS No. 101 -61 -1) greater than or equal to 0.1% (1000 ppm) | REACH Regulation 'Candidate substances for authorisation ' |
| 068 | Pentacosafluorotridecanoic acid | 72629-94-8 | In the constituent molding quality Exceed 1000 ppm However, C9-C 14 PFCAs, their salts, and C9-C 14 PFCAs listed in Table 1 are not included in the content prohibition standards. | REACH Regulation 'Candidate substances for authorisation ' |
| 069 | Tricosafluorododecanoic acid | 307-55-1 | In the constituent molding quality Exceed 1000 ppm However, C9-C 14 PFCAs, their salts, and C9-C 14 PFCAs listed in Table 1 are not included in the content prohibition standards. | REACH Regulation 'Candidate substances for authorisation ' |
| 070 | Henicosafluoroundecanoic acid | 2058-94-8 | In the constituent molding quality Exceed 1000 ppm However, C9-C 14 PFCAs, their salts, and C9-C 14 PFCAs listed in Table 1 are not included in the content prohibition standards. | REACH Regulation 'Candidate substances for authorisation ' |
| 071 | Heptacosafluorotetradecanoic acid | 376-06-7 | In the constituent molding quality Exceed 1000 ppm However, C9-C 14 PFCAs, their salts, and C9-C 14 PFCAs listed in Table 1 are not included in the content prohibition standards. | REACH Regulation 'Candidate substances for authorisation ' |
| 072 | Diazene -1, 2-dicarboxamide (C, C '-azodi (formamide)) | 123-77-3 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|-------------------------------------|---|--|
| 073 | Cyclohexane -1, 2-dicarboxylic anhydride [1] cis-cyclohexane -1, 2-dicarboxylic anhydride [2] trans-cyclohexane -1, 2-dicarboxylic anhydride [3] [Note] Individual cis [2], trans [3] isotopes and all combinations of cis and trans [1] are included. | 85-42-7 13149-00-3 14166-21-3 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 074 | Hexahydromethylphthalic anhydride [1] Hexahydro -4 methylphthalic anhydride [2] Hexahydro -1 methylphthalic anhydride [3] Hexahydro -3 methylphthalic anhydride [4] [Note] Individual isomers [2], [3], [4] (contains their cis and trans stereoisomers) and all isomers [1] are included. | | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 075 | 4-Nonylphenol, branched and linear [Note] A substance in which a 9-carbon straight or branched alkyl group is covalently attached to phenol at position 4. Each isomer clearly defined as UVCB and its mixture are included. | - | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 076 | 4- (1,1,3,3-tetramethylbutyl) phenol, ethoxylated [Note] Well-Defined substances, UVCB substances, include polymers and homologs. | - | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 077 | Methoxy acetic acid | 625-45-6 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 078 | N, N-dimethylformamide | 68-12-2 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 079 | Dibutyltin dichloride (DBTC) | 683-18-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|-------------------------------------|------------|---|--|
| 080 | Lead monoxide (lead oxide) | 1317-36-8 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 081 | Orange lead (Lead tetroxide) | 1314-41-6 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 082 | Lead bis (tetrafluoroborate) | 13814-96-5 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 083 | Trilead bis (carbonate) dihydroxide | 1319-46-6 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 084 | Lead titanium trioxide | 12060-00-3 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 085 | Lead Titanium Zirconium Oxide | 12626-81-2 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|-------------|---|--|
| 086 | Silicic acid, lead salt | 11120-22-2 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 087 | Silicic acid (H2Si2O5), barium salt (1: 1), lead- doped [Note] Repr. 1A (CLP) or Content of lead exceeding the appropriate concentration limit in category 1 (DSD). The substance concerned shall comply with the EC Regulation. Index No. 082-001 of No. 1272/2008 - 00 -6 Belong to the classification "Lead compounds". | 68784-75-8 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 088 | Methyloxirane (Propylene oxide) | 75-56-9 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 089 | 1,2-Benzenedicarboxylicacid, dipentylester, branched and linear | 84777-06-0 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 090 | Diisopentylphthalate (DIPP) | 605-50-5 | In the constituent molding quality Exceed 1000 ppm except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 091 | N-pentyl-isopentylphthalate | 776297-69-9 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 092 | 1,2-diethoxyethane | 629-14-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 093 | Acid, lead salt, basic | 51404-69-4 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 094 | Lead oxide sulfate | 12036-76-9 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|-----------------------------------|------------|---|--|
| 095 | [Phthalato (2-)] dioxotrilead | 69011-06-9 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 096 | Dioxobis (stearato) trilead | 12578-12-0 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 097 | Fatty Acids, C 16 -18, Lead Salts | 91031-62-8 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 098 | Lead cyanamide | 20837-86-9 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 099 | Lead dinitrate | 10099-74-8 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 100 | Pentalead tetraoxide sulphate | 12065-90-6 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|-------------|---|--|
| 101 | Pyrochlore, timed lead yellow | 8012-00-8 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs | REACH Regulation 'Candidate substances for authorisation ' |
| 102 | Sulfurous acid, lead salt, divasic | 62229-08-7 | listed in Table 1 054 In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 103 | Tetraethyllead | 78-00-2 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 104 | Tetralead trioxide sulfate | 12202-17-4 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 105 | Trilead dioxide phosphate | 12141-20-7 | In the constituent molding quality Exceed 1000 ppm but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 106 | Furan | 110-00-9 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 107 | Diethyl sulphate | 64-67-5 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 108 | Dimethyl sulphate | 77-78-1 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 109 | 3-ethyl -2 methyl -2 - (3-methylbutyl) -1, 3 - oxazolidine | 143860-04-2 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 110 | Dinoseb (6-sec-butyl -2, 4-dinitrophenol) | 88-85-7 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|-----------|--|--|
| 111 | 4,4 '-methylenedi-o-toluidine | 838-88-0 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 112 | 4,4 '-oxydianiline and its salts | 101-80-4 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 113 | 4-aminoazobenzene | 60-09-3 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 114 | 4-methyl-m-phenylenediamine (toluene -2, 4-diamine) | 95-80-7 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 115 | 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 116 | Biphenyl -4 - ylamine | 92-67-1 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 117 | o-aminoazotoluene (4-o-tolylazo-o-toluidine) | 97-56-3 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 118 | o-toluidine | 95-53-4 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 119 | N-Methylacetamide | 79-16-3 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 120 | Cadmium | 7440-43-9 | The content in the constituent molding quality amount exceeds 1000 ppm. Only applicable for use as an exclusion application for "cadmium compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 121 | Cadmium Oxide | 1306-19-0 | The content in the constituent molding quality amount exceeds 1000 ppm. Only applicable for use as an exclusion application for "cadmium compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 122 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | The content in the constituent molding quality amount exceeds 1000 ppm. perfluorooctanoic acid (PFOA), its salts, and PFOA- related compounds in Table 1. | REACH Regulation 'Candidate substances for authorisation ' |
| 123 | 2,2,3,3,4,5,5,6,6,7,8,8-Pentadecafluorooctanoic acid | 335-67-1 | The content in the constituent molding quality amount exceeds 1000 ppm. perfluorooctanoic acid (PFOA), its salts, and PFOA- related compounds in Table 1. | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|------------|--|---|
| 124 | Di-n-pentyl phthalate (DPP) | 131-18-0 | The content in the constituent molding quality amount exceeds 1000 ppm. except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 125 | 4-Nonylphenol, branched and linear, ethoxylated [Note] Including substances in which a 9-carbon straight and/or branched alkyl chain is covalently bonded at position 4 of phenol, UVCB substances and well-defined substances (substances of known composition, etc.), polymers and individual homologues isomers or combinations thereof which have been ethoxylated | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 126 | Cadmium sulphide | 1306-23-6 | The content in the constituent molding quality amount exceeds 1000 ppm. Only applicable for use as an exclusion application for "cadmium compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 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 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 128 | Dihexyl phthalate | 84-75-3 | The content in the constituent molding quality amount exceeds 1000 ppm. except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | REACH Regulation 'Candidate substances for authorisation ' |
| 129 | Imidazoline -2 thione (2-imidazoline -2 thiol) | 96-45-7 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 130 | Trixylyl phosphate | 25155-23-1 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 131 | Disodium 3,3 '- [[1,1' -biphenyl] -4, 4 '-diylbis (azo)] bis (4-aminonaphthalene -1 -sulphonate) (C.I. Direct Red 28) | 573-58-0 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 132 | Lead di (acetate) | 301-04-2 | The content in the constituent molding quality amount exceeds 1000 ppm. but only for use as an exclusion application for "lead compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "lead compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|--------------------------|--|--|
| 133 | Cadmium chloride | 10108-64-2 | The content in the constituent molding quality amount exceeds 1000 ppm. Only applicable for use as an exclusion application for "cadmium compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 134 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 135 | Sodium peroxometabolate | 7632-04-4 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 136 | Sodium perborate; perboric acid, sodium salt | 15120-21-5 11138-47-9 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 137 | Cadmium fluoride (CdF2) | 7790-79-6 | The content in the constituent molding quality amount exceeds 1000 ppm. Only applicable for use as an exclusion application for "cadmium compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 138 | Cadmium sulphate | 10124-36-4 31119-53-6 | The content in the constituent molding quality amount exceeds 1000 ppm. Only applicable for use as an exclusion application for "cadmium compounds" in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 139 | 2- (2H-benzotriazol -2 yl) -4, 6- ditertpentylphenol (UV -328) | 25973-55-1 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 140 | Dioctyltin bis (2-ethylhexyl thioglycolate); 2- Ethylhexyl 10 ethyl -4, 4-dioctyl -7 oxo -8 oxa -3, 5-dithia -4 stannatetradecanoate (DOTE) | 15571-58-1 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 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) | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|-------------------------------------|--|--|
| 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 of] | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 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 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 144 | Perfluorononan -1 oic-acid and its sodium and ammonium salts | 375-95-1 21049-39-8 4149-60-4 | The content in the constituent molding quality amount exceeds 1000 ppm. However, C9-C 14 PFCAs, their salts, and C9-C 14 PFCAs listed in Table 1 are not included in the content prohibition standards < | REACH Regulation 'Candidate substances for authorisation ' |
| 145 | Nitrobenzene | 98-95-3 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 146 | 2- (2H-benzotriazol -2 - yl) -4 - (tert-butyl) -6 - (sec-butyl) phenol (UV -350) | 36437-37-3 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 147 | 2,4-di-tert-butyl -6 - (5-chlorobenzotriazol -2 - yl) phenol (UV -327) | 3864-99-1 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 148 | 1,3-propanesultone | 1120-71-4 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 149 | Benzo [a] pyrene | 50-32-8 | The content in the constituent molding quality amount exceeds 1000 ppm. except for the prohibited uses of polycyclic aromatic hydrocarbons (PAH) as listed in Table 1. In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 150 | p- (1,1-dimethylpropyl) phenol | 80-46-6 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|------------------------------------|---|--|
| 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 | The content in the constituent molding quality amount exceeds 1000 ppm. However, C9-C 14 PFCAs, their salts, and C9-C 14 PFCAs listed in Table 1 are not included in the content prohibition standards. | REACH Regulation 'Candidate substances for authorisation ' |
| 152 | 4-Heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 valently bound preferentially in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination therapy of | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 153 | 4,4 '-lsopropylidenediphenol; bisphenol A | 80-05-7 | The content in the constituent molding quality amount exceeds 1000 ppm. where 4,4 '-propane -2, 2-diyldiphenol in Table 1; Applicable to standards other than the Standards for Prohibition of Bisphenol A | REACH Regulation 'Candidate substances for authorisation ' |
| 154 | Reaction products of 1,3,4-thiadiazolidine -2, 5- dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with \ge 0.1% w/w 4-heptylphenol, branched and linear (4-HPbl) | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 155 | Chrysene | 218-01-9, 1719-03-5 | The content in the constituent molding quality amount exceeds 1000 ppm. However, the CAS No. 218 - 01 -9 applies to applications other than those for which polycyclic aromatic hydrocarbons (PAH) are prohibited, as listed in Table 1 In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 156 | Cadmium Nitrate | 10325-94-7 | The content in the constituent molding quality amount exceeds 1000 ppm. but only for use as an exclusion application for cadmium compounds listed in Table 1e Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|------------|--|--|
| 157 | Cadmium hydroxide | 21041-95-2 | The content in the constituent molding quality amount exceeds 1000 ppm. but only for use as an exclusion application for cadmium compounds listed in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 158 | Cadmium carbonate | 513-78-0 | The content in the constituent molding quality amount exceeds 1000 ppm. but only for use as an exclusion application for cadmium compounds listed in Table 1e. Other applications should meet the criteria in Table 1 for "cadmium compounds". In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 159 | Benz [a] anthracene | 56-55-3 | The content in the constituent molding quality amount exceeds 1000 ppm. Applicable to applications other than the banned use of polycyclic aromatic hydrocarbons (PAH) listed in Table 1 and to the banned use of CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 160 | 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 of] | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 161 | Terphenyl, hydrogenated | 61788-32-7 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 162 | 2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane Octamethylcyclotetrasiloxane (D4) | 556-67-2 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 163 | Lead | 7439-92-1 | The content in the constituent molding quality amount exceeds 1000 ppm. but only for use as an exclusion application for lead in Table 1e. In all other applications, lead must meet the criteria in Table 1. In addition to the inclusion prohibition criteria for CMRs listed in Table 1 054 | REACH Regulation 'Candidate substances for authorisation ' |
| 164 | Ethylenediamine (EDA) | 107-15-3 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 165 | Dedecamethylcyclohexasiloxane (D6) | 540-97-6 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 166 | Disodium octoborate | 12008-41-2 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|---|-----------------|---|--|
| 167 | Dicyclohexyl phthalate (DCHP) | 84-61-7 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 168 | Decamethylcyclopentasiloxane (D5) | 541-02-6 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 169 | Benzo [ghi] perylene | 191-24-2 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 170 | Benzene -1, 2, 4-tricarboxylic acid 1, 2 anhydrides; TMA) | 552-30-7 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 171 | Pyrene | 129-00-0 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 172 | Phenanthrene | 85-01-8 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 173 | Fluoranthene | 206-44-0 | In the constituent molding quality Exceed 1000 ppm | REACH Regulation 'Candidate substances for authorisation ' |
| 174 | Benzo [k] fluoranthene | 207-08-9 | The content in the constituent molding quality amount exceeds 1000 ppm. except for the prohibited uses of polycyclic aromatic hydrocarbons (PAH) as listed in Table 1. In addition, CMRs are applied to standards other than those shown in Table 1. | REACH Regulation 'Candidate substances for authorisation ' |
| 175 | 2,2-bis (4 '-hydroxyphenyl) -4 methylpentane | 6807-17-6 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 176 | 1, 7, 7-trimethyl -3 - (phenylmethylene) bicyclo [2.2.1] heptane -2 - one (3-benzylidene camphor; 3-BC) | 15087-24-8 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 177 | Tris (4-Nonylphenyl, branched and linear) phosphite (TNPP) containing 0.1% or more of branched and linear 4-nonylphenol ethoxylate | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 178 | 4-tert-butylphenol | 98-54-4 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 179 | 2-methoxyethyl acetate | 110-49-6 | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 180 | Salts and acyl of 2,3,3,3-tetrafluoro -2 (heptafluoropropoxy) propionic acid Halides (for substances that optionally contain individual isomers or combinations thereof) | - | The content in the constituent molding quality amount exceeds 1000 ppm. | REACH Regulation 'Candidate substances for authorisation ' |
| 181 | Perfluorobutane sulfonic acid (PFBS) and its sales | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 182 | Diisohexyl phthalate | 71850-09-4 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 183 | 2-methyl -1 - (4-methylthiophenyl) -2 morpholinopropan -1 - one | 71868-10-5 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 184 | 2-benzyl -2 -dimethylamino -4 '- morpholinobutyrophenone | 119313-12- 1 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 185 | 1-vinylimidazole | 1072-63-5 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 186 | 2-methylimidazole | 693-98-1 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 187 | Butyl 4-hydroxybenzoate (Butylparaben) | 94-26-8 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|------------|---|--|
| 188 | Dibutylbis (pentane -2, 4-dionato-O, O ') tin | 22673-19-4 | When the content in the constituent molding quality exceeds 1000 ppm, report the content except for the prohibition standard of dibutyltin compounds shown in Table 1 | REACH Regulation 'Candidate substances for authorisation ' |
| 189 | Bis (2- (2-methoxyethoxy) ethyl) ether | 143-24-8 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 190 | Dioctyltin dilaurate, stannane, dioctyl-, bis (coco acyloxy) derivs., and any other stannane, dioctyl-, bis (fatty acyloxy) derivs. wherein C 12 is the dominant carbon number of the fatty acyloxy moiety | - | If the content in the constituent molding quality exceeds 1000 ppm, report the content except for the inclusion prohibition standard of dioctyltin compounds shown in Table 1. | REACH Regulation 'Candidate substances for authorisation ' |
| 191 | 1,4-dioxane | 123-91-1 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 192 | 2,2-bis (bromomethyl) propane -1, 3-diol (BMP); 2,2-dimethylpropan -1 ol, tribromo derivative/3-bromo -2, 2-bis (bromomethyl) -1 propanol (TBNPA); 2,3- dibromo -1 propanol (2,3-DBPA) | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 193 | 2- (4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 194 | 4,4 '- (1-methylpropylidene) bisphenol | 77-40-7 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 195 | Glutaral | 111-30-8 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 196 | Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C 14 to C 17 | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 197 | Orthoboric acid, sodium salt | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 198 | Phenol, alkylation products (mainly in para position) with C 12 rich branched alkyl chains from oligomerization, covering any individual isomers and/or combinations therapy of (PDDP) | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|-------------|---|--|
| 199 | (±) -1, 7, 7-trimethyl -3 - [(4-methylphenyl) methylene] bicyclo [2.2.1] heptan -2 one covering any of the individual isomers and/or combinations thereof (4-MBC) | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 200 | 6,6 '-di-tert-butyl -2, 2' -methylenedi-p-cresol | 119-47-1 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 201 | S- (tricyclo (5.2.1.0 '2,6) deca -3 en -8 (or 9) -yl O- (isopropyl or isobutyl or 2-ethylhexyl) O- (isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate | 255881-94-8 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 202 | tris (2-methoxyethoxy) vinylsilane | 1067-53-4 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 203 | Per- and polyfluoroalkyl substances (PFAS) | - | If the contain of the target substance is known, report its content and use. The criteria of Table 1 also apply to PFOS/PFOS analogous compounds, "Pfoa, its salt and Pfoa-Related compound" "C9-C 14 PFCAs, their salts and C9-C 14 PFCAs related substances" and "PFHxS, its salts and PFHxS-related substances" listed in Table 1. | U.S. Toxic Substances Control Act (TSCA), etc. |
| 204 | N- (hydroxymethyl) acrylamide | 924-42-5 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 205 | 1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6- tribromobenzene | 37853-59-1 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 206 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA) | 79-94-7 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 207 | 4,4'-sulphonyldiphenol (Bisphenol S) | 80-09-1 | Report the content if it exceeds 1000 ppm in the constituent molding quality. However, the content of 4,4 ' -sulfonyldiphenols (bisphenol S) is not restricted as shown in Table 1. | REACH Regulation 'Candidate substances for authorisation ' |
| 208 | Barium diboron tetraoxide | 13701-59-2 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 209 | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof | _ | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 210 | lsobutyl 4-hydroxybenzoate | 4247-02-3 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |

| No. | Substance name | CAS No. | Conditions covered | Major Cited Laws |
|-----|--|-----------------|--|--|
| 211 | Melamine | 108-78-1 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 212 | Perfluoroheptanoic acid and its salts | _ | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 213 | reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4- (1,1,1,2,3,3,3-heptafluoropropan-2- yl)morpholine and2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholine | _ | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 214 | bis(4-chlorophenyl) sulphone | 80-07-9 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 215 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 216 | 2,4,6-tri-tert-butylphenol | 732-26-3 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 217 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3- tetramethylbutyl)phenol (UV-329) | 3147-75-9 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 218 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]- 1-[4-(morpholin-4-yl)phenyl]butan-1-one | 119344-86- 4 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 219 | Bumetrizole (UV-326) | 3896-11-5 | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| 220 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol | - | Report the content if it exceeds 1000 ppm in the configured molding quality amount. | REACH Regulation 'Candidate substances for authorisation ' |
| | | | | |
| | | | | |

[Notes to Table 2]

- 1) Content of the management report
 - Assess and control whether deliverables and packaging materials fall under the "conditions to be covered" shown in Table 2, and if so, report the mass, intended use, and contained parts of the substance.
- 2) Approach to Content Calculation
 - In this section, the denominator used to calculate the content is the mass of the constituent parts. The molecule used to calculate the content is the mass of the chemical substance to be calculated.

3.Controlled substances contained

Table 3: Controlled Substances

| No. | Substance name | CAS No. | Conditions covered | Notes |
|-----|---|---------|--|----------------------------------|
| 001 | Brominated flame retardants (other than PBBs, PBDEs, HBCDDs) | - | Control content if intentionally added | Detailed substances: Table 3a |
| 002 | Polyvinyl Chloride (PVC) | | If intentionally added, control the mass of material containing the substance | |
| 003 | Carcinogens, mutagens and reproductive toxicants (CMRs) | - | Control content if intentionally added except for the inclusion prohibition criteria for CMRs given in Table 1, paragraph 054. | Detailed substance: Note 3 |
| 004 | Persistent, bioaccumulative and toxic substances (PBTs), very persistent and very bioaccumulative substances (vPvBs) | - | Control content if intentionally added | Detailed substance: Note 4 |

[Notes to Table 3]

- 1) Record management content
 - Determine whether the Deliverables meet the "Applicable Conditions" listed in Table 3, and if applicable, record and manage the mass, usage, and content of the Applicable Substances.
- 2) Approach to Content Calculation
 - In this section, the denominator for calculating the content rate is the total mass of the target article.
 - In the case of composite substances or materials, the materials shall be:.
 - Compounds, polymer alloys, metal alloys, etc.
 - For raw materials such as paints, adhesives, inks, pastes, resin polymers, glass powders, ceramic powders, and the like, they are ultimately formed according to their intended use. Example:
 - The paint and adhesive shall be dried and cured.
 - The resin polymer is in a molded state.
 - Post-Molding conditions of glass and ceramics.
 - A single layer of paint, printing, plating, etc. In the case of multiple layers, the state of each single layer is obtained.
 - For packaging materials, cardboard base paper, adhesive, tape, ink, etc.
 - The molecule used to calculate the content is the mass of the chemical substance to be calculated. However, in the case of a metal compound, the mass of only the target metal component is used as a molecule.
- 3) Carcinogens (Carc.), mutagens (Muta.), and reproductive toxicants (Repr.) (CMRs) are defined as substances identified in Regulation (EC) No 1272/2008 Annex VITable 3.1, Table 3.2, and COMMISSION REGULATION (EU) No 605/2014 Annex III (1) (2) as Carc. 1A/1B, Muta. 1A/1B, Repr. 1A/1B and Carc. Cat. 1, 2, Muta. Cat. 1, 2, Repr. Cat. Substances classified into 1 and 2 are covered.

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

https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1550794756233&uri=CELEX:32008R1272 [External Link]

COMMISSION REGULATION (EU) No 605/2014 of 5 June 2014 Annex III (1) (2) https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014R0605 [External Link]

4) Persistent, bioaccumulative and toxic substances (PBTs) and very persistent and very bioaccumulative substances (vPvBs) are defined as substances that satisfy the conditions specified in Article 57 of the REACH Regulation.

Table 3a: Brominated flame retardants (Other than PBB, PBDE, HBCDD)

| Brominated flame retardants (Other than PBB, PBDE, HBCDD) | CAS No. |
|---|-------------|
| Brominated flame retardant which comes under notation of ISO 1043 -4 code number FR (14) [Aliphatic/alicyclic branched compounds] | - |
| Brominated flame retardant which comes under notation of ISO 1043 -4 code number FR (15) [Aliphatic/alicyclic branched compounds in combination with antimony compounds] | - |
| Brominated flame retardant which comes under notation of ISO 1043 -4 code number FR (16) [Aromatic broken compounds excluded] | - |
| Brominated flame retardant which comes under notation of ISO 1043 -4 code number FR (17) [Aromatic broken compounds excluding broken diphenyl ether and biphenyl in combination with antimony compounds] | - |
| Brominated flame retardant which comes under notation of ISO 1043 -4 code number FR (22) [Aliphatic/alicyclic chlorinated and brominated compounds] | - |
| Brominated flame retardant which comes under notation of ISO 1043 -4 code number FR (42) [Brominated organic phosphorus compounds] | - |
| Poly (2,6-dihydrophenylene 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-phosphatase | 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 PBB, PBDE, 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-glucose | 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 homopolymers, 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 Broken Flame Retardants | - |
| Tetrabromo-cyclooctane | 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

Table 4: Prohibited substances in manufacturing

| Prohibited substances in manufacturing | Notes |
|--|---|
| Ozone depleting substances shown in Table 1b | Except when used in the following applications When used for purposes other than direct manufacturing processes such as analysis, measurement and product development When used in refrigerators and air conditioners The following substances are excluded from the target substances Substances listed in Note 1 to Table 1b: HCFCs * Halon -1202 of certain halons Bromoethane (ethyl bromide) 1-Bromopropane (n-propyl bromide) Trifluoroiodomethane (trifluoromethyl iodide) Chloromethane (methyl chloride) *When HCFCs are used, the amount of HCFCs used should be kept to a minimum. Efforts shall be made to reduce. |

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| [Revision History] | | |
|--------------------|---------------|--|
| June 30, 2023 | (Edition 0.1) | New edition established |
| July 14, 2023 | (Edition 1.0) | First edition |
| Nov 10, 2023 | (Edition 2.0) | Added 1 substance (No.61) as "Prohibited substances" in Table 1 Added 11 substances (No. 205 to 215) as "Reportable Substances" in Table 2 |
| Mar 26, 2024 | (Edition 3.0) | Change in Reporting criteria (No. 203) in Table 2. Added 2 substances (No.62-63) as "Prohibited Substances" in Table 1 Added 5 substances (No. 216 to 220) as "Reportable Substances" in Table 2 |

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