Standards on the Management of Certain Chemical Substances
(Version 10.4)
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Introduction

With the idea of "LIVING TOGETHER", Kyocera Document Solutions promotes the reduction of environmental impact on all aspects of our corporate activities in accordance with the "Kyocera Document Solutions Environmental Safety Policy" that embodies the "Kyocera Environmental Charter".

In December 2003, we established "Standards on the Management of Certain Chemical Substances" and have managed Substances Included in Products through our supply chain.

Thank you very much for your cooperation in complying with "Standards on the Management of Certain Chemical Substances".

In the interest of more reliable and efficient compliance with "Standards on the Management of Certain Chemical Substances", we have recently re-examined them, introducing the chemical investigation using the communication sheet provided by JAMP.

We appreciate your continued cooperation and further understanding of our efforts and perspectives towards environment conservation.

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**Kyocera Environmental Charter (an abstract)**

[Environmental Management Policies]
1. Compliance with internal environmental standards, of which, global environmental protection is made the number one priority
2. More efficient utilization of resources and energy, development of processing technologies
3. Development of earth-friendly products of two types: Environmental Improvement Products that will make a positive contribution to the improvement of the global environment; and Environmentally Gentle Products that will achieve a far lower burden on the global environment
4. Cooperation with government environmental policies, and participation in or support of social contribution activities

[Environment Management Objectives]
1. In order to minimize the destruction of the natural environment and any harmful effects on the ecosystem, Kyocera will establish and comply with internal standards that are equal to or more stringent than the standards specified in applicable international agreements, the legal/governmental regulations of relevant countries and the regulations of regions where the Company’s facilities are located.
2. At all levels, Kyocera will study and evaluate scientifically the effects of its business activities on the environment, and take the necessary protective measures.
3. Kyocera will develop processing technologies and production facilities with maximum resource and energy efficiency in all manufacturing processes. At the same time, the Company will aim to reduce raw material utilization in all processes.
4. Kyocera will promote in-house energy conservation activities, such as more efficient use of electricity and fossil fuels, the introduction of high efficiency equipment, and the reutilization of thermal energy.
5. Kyocera intends to purchase recyclable materials that contribute to resource conservation. At the same time, the Company will maximize resource utilization by establishing recycling systems for waste-water and waste materials. The Company will take aggressive steps to recycle, decontaminate and reduce the volume of all of its industrial waste.
6. Kyocera will research and develop “Environmental Improvement Products” that make a positive contribution to the improvement of the global environment.
7. Kyocera will research and develop “Environmentally Gentle Products” that are gentle to Planet Earth and place a lighter burden on the environment at every stage of production, sales, distribution, consumption and disposal.
8. Kyocera will promote the “greening” (forestation) of its facilities in an organized effort to create lush and inviting grounds.
Chapter 1. Policy on management of Substances Included in Products

1-1. Purpose
These standards aims to help ensure proper management of chemical substances by establishing criteria and informing our business partners of the strict chemicals usage in our products or manufacturing process.

1-2. Scope of Application
Applied to all finished products, unit items, components, materials, consumables, accessories, optional items, packaging materials, sub-materials for production that are used in our products*.
This does not apply to packaging materials to be used only for shipping of items delivered to us.
*The term "our products" refers to products sold under brand regardless of manufacturers, and products manufactured by us and sold under other brands.

1-3. Terms and Definitions

<table>
<thead>
<tr>
<th>No.</th>
<th>Terms</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chemical substances</td>
<td>A chemical element or compound that either exists in nature or is obtained through a manufacturing process.</td>
</tr>
<tr>
<td>2</td>
<td>Mixture</td>
<td>A mixture intentionally comprising two or more chemical substances.</td>
</tr>
<tr>
<td>3</td>
<td>Article</td>
<td>An item of specific shape, appearance or design created during manufacture which substantially determines functions in final use rather than functions provided by its chemical composition.</td>
</tr>
<tr>
<td>4</td>
<td>Chemical products</td>
<td>Chemical substance and/or mixture.</td>
</tr>
<tr>
<td>5</td>
<td>Parts</td>
<td>An article to be manufactured until it turns into an end product.</td>
</tr>
<tr>
<td>6</td>
<td>Final products</td>
<td>Final molded products produced by combining or processing chemicals and/or components.</td>
</tr>
<tr>
<td>7</td>
<td>Products</td>
<td>Chemicals, components and finished products resulting from our business activities that we deliver to our clients.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note) Packaging materials to be used in product packaging are also included in the product.</td>
</tr>
<tr>
<td>8</td>
<td>Contain</td>
<td>Components and materials of such products have to contain such substances.</td>
</tr>
<tr>
<td>9</td>
<td>Intentional use</td>
<td>Refers to the use (addition) of a chemical substance in order to give a certain quality to an object. Includes the cases where these substances are added, filled or mixed; or where they adhere or remain.</td>
</tr>
<tr>
<td>10</td>
<td>Impurity</td>
<td>Substances contained in natural materials and cannot be completely removed through refinement as industrial materials; substances that cannot be completely removed such as by-products or residues of synthesis reaction.</td>
</tr>
<tr>
<td>11</td>
<td>Homogeneous material</td>
<td>Refers to materials which cannot be mechanically disassembled into different materials. The term &quot;homogeneous&quot; means &quot;evenly consists of the same element&quot;. &quot;Mechanical disassembly&quot; refers to disassembly by mechanical work such as removal of screws, cutting, crushing, grinding or polishing.</td>
</tr>
<tr>
<td>12</td>
<td>Threshold</td>
<td>Permissible value (density) per homogeneous material for intended applications.</td>
</tr>
<tr>
<td>13</td>
<td>Exemption</td>
<td>Certain applications of the subject matters excluded from the scope of regulation.</td>
</tr>
</tbody>
</table>

Note) Packaging materials to be used in product packaging are also included in the product.
1-4. Revision of "Standards on the Management of Certain Chemical Substances"
Restricted substances and its exemption stipulated in our standards will be reviewed according to domestic and international laws and regulations as well as industry trends. Please note that the prohibition date based on these standards may be implemented ahead of the legally designated prohibition date in consideration of such factors as distribution periods of our products.

Chapter 2. Standards on the Management of Certain Chemical Substances
To ensure that our products comply with laws and regulations at home and abroad as well as environmental labels, we have sorted out respective standards and established our own "Standards on the Management of Certain Chemical Substances".

2-1. Banned Substances in Products
"Banned Substances in Products" refers to chemical substances prohibited by laws and regulations at home and abroad as well as by environmental label standards.

2-1-1. List of banned substances in products

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scope</th>
<th>Scope of JAMP investigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lead and its compounds</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>Mercury and its compounds</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>Cadmium and its compounds</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>Hexavalent chromium compounds</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>Polybrominated biphenyls (PBBs)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>6</td>
<td>Polybrominated diphenyl ethers (PBDEs)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>7</td>
<td>Polychlorinated biphenyl (PCB) compounds and their specific alternative substances</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>8</td>
<td>Polychlorinated terphenyls (PCTs)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>9</td>
<td>Asbestos</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>10</td>
<td>Specific organotin compounds (TBTO, Tri-substituted organostannic compounds)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>No.</td>
<td>Chemical substance group</td>
<td>Scope</td>
<td>Scope of JAMP investigation</td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------------------------------------------------------------------------</td>
<td>----------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>11</td>
<td>Dibutyltin (DBT) compounds</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>12</td>
<td>Dimethyl fumarate (DMF)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>13</td>
<td>Shortchain chlorinated paraffins (C10-C13)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>14</td>
<td>Polychlorinated naphthalene (more than 1 of chlorine atoms)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>15</td>
<td>Perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>16</td>
<td>Perfluorooctanoic acid (PFOA) and its salts and esters</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>17</td>
<td>2-benzotriazol-2-yl-4,6-di-tert-butylphenol</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>18</td>
<td>Hexabromocyclododecane (HBCDD)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>19</td>
<td>Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>20</td>
<td>Ozone-depleting substances</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>21</td>
<td>Arsenic compounds</td>
<td>Packaging (wood)</td>
<td>Yes</td>
</tr>
<tr>
<td>22</td>
<td>Cobalt chloride</td>
<td>Packaging (desiccant)</td>
<td>Yes</td>
</tr>
<tr>
<td>23</td>
<td>Polycyclic Aromatic Hydrocarbons (PAH)</td>
<td>Resin materials/</td>
<td>8 types : Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power cord</td>
<td>18 types : No</td>
</tr>
<tr>
<td>24</td>
<td>Mirex</td>
<td>Resin materials</td>
<td>Yes</td>
</tr>
<tr>
<td>25</td>
<td>Hexachlorobenzene</td>
<td>Resin materials/</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supply materials</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Chlorinated paraffins</td>
<td>Printed circuit boards (PWB)</td>
<td>No (Partly)</td>
</tr>
<tr>
<td>27</td>
<td>Halogenated organic compounds and Halogenated polymers</td>
<td>Packaging (plastic)</td>
<td>No</td>
</tr>
<tr>
<td>28</td>
<td>Halogenated Flame Retardants</td>
<td>Resin materials</td>
<td>No (Partly)</td>
</tr>
<tr>
<td>29</td>
<td>Halogenated polymers (excluding fluorinated plastic.)</td>
<td>Resin materials</td>
<td>No (Partly)</td>
</tr>
<tr>
<td>30</td>
<td>Specific phthalate</td>
<td>Resin materials</td>
<td>Yes</td>
</tr>
<tr>
<td>31</td>
<td>Azo compounds forming specific amine</td>
<td>Supply materials</td>
<td>Yes</td>
</tr>
<tr>
<td>32</td>
<td>Selenium and its compounds</td>
<td>Supply materials</td>
<td>Yes</td>
</tr>
<tr>
<td>33</td>
<td>Nickel and its compounds</td>
<td>Supply materials</td>
<td>Yes</td>
</tr>
<tr>
<td>34</td>
<td>Organotin compounds (excluding specific organotin compounds and dibutyltin (DBT) compounds)</td>
<td>Supply materials</td>
<td>Yes</td>
</tr>
<tr>
<td>35</td>
<td>EU REACH regulation (EC) No1907/2006 Annex XIII PBT/ vPvB</td>
<td>Resin materials/</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supply materials</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>EU REACH regulation (EC) No1907/2006 Candidate substances of</td>
<td>Resin materials/</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>very high concern (SVHC)</td>
<td>Supply materials</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>EU REACH regulation (EC) No1907/2006 Annex VII Restricted substances</td>
<td>Supply materials</td>
<td>Yes</td>
</tr>
<tr>
<td>38</td>
<td>CLP regulation (EC) 1272/2008 Annex VI Table 3.1 CMR Cat.1A,1B,2 (Table3.2 CMR Cat.1-3)</td>
<td>Resin materials/</td>
<td>No (Partly)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supply materials</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>CLP regulation (EC) 1272/2008 Annes VI Specified Hazardous</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Substances* in Table3.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Germany: TRGS905 CMR Cat.1-3</td>
<td>Resin materials/</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supply materials</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Germany: MAK CPM (C Cat.1-2, P Cat.A-B, M Cat.1-2) (excluding antimony compounds.)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>42</td>
<td>USA: OSHA 1910 Subpart Z</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>43</td>
<td>USA: EPA Carcinogenicity; A, B1, B2</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>44</td>
<td>USA: NTP Carcinogenicity; K, R</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>45</td>
<td>California: Proposition 65 (cancer, developmental)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>46</td>
<td>ACGIH Carcinogenicity; 1A, A2, A3 (excluding carbon black and titanium dioxide.)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>47</td>
<td>IARC Group 1, 2A, 2B (excluding carbon black and titanium dioxide.)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>48</td>
<td>Japan Society for Occupational Health; Class 1, 2A, 2B (excluding carbon black.)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
</tbody>
</table>
### 2-1-2. Scope of banned substances in products, thresholds, exemptions, applicable laws and regulations

![Table. 2-1-2]

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scope</th>
<th>Thresholds/ Exemptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lead and its compounds</td>
<td>other than those listed below</td>
<td>Ban on intentional use and 0.1 wt% or below&lt;br&gt;Exemptions:&lt;br&gt;• Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight (RoHS Exemption: 6a)&lt;br&gt;• Lead as an alloying element in aluminium containing up to 0.4 % lead by weight (RoHS Exemption: 6b)&lt;br&gt;• Copper alloy containing up to 4 % lead by weight (RoHS Exemption: 6c)&lt;br&gt;• Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead) (RoHS Exemption: 7a)&lt;br&gt;• Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound (RoHS Exemption: 7c-1)&lt;br&gt;• Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (RoHS Exemption: 7c-II)&lt;br&gt;• Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors (RoHS Exemption: 7c-IV)&lt;br&gt;• Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages (RoHS Exemption: 15)&lt;br&gt;• Lead in cermet-based trimmer potentiometer elements (RoHS Exemption: 34)&lt;br&gt;• Power cord less than 0.03wt%(300ppm) per covering material of the power cord&lt;br&gt;• Batteries 0.0015wt% (15ppm) or below per cell&lt;br&gt;• Packaging Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).</td>
</tr>
</tbody>
</table>

Applicable laws and regulations/ Environmental label criteria: EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Power cord; California Proposition 65, Batteries; EU Battery directive (2006/66/EC), Taiwan Green Mark, Packaging; EU Packaging directive (94/62/EC)
<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scope</th>
<th>Thresholds/ Exemptions</th>
</tr>
</thead>
</table>
| 2   | Mercury and its compounds | other than those listed below | Ban on intentional use and 0.1 wt% or below Exemptions: -
|     |                          |       | -Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Short length (≤ 500 mm) not exceeding (per lamp): 3.5 mg (RoHS Exemption: 3a)
|     |                          |       | -Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Medium length (> 500 mm and ≤ 1 500 mm) not exceeding (per lamp): 5 mg (RoHS Exemption: 3b)
|     |                          |       | -Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Long length (> 1 500 mm) not exceeding (per lamp): 13 mg (RoHS Exemption: 3c)
|     | Batteries                | 0.000025wt% (0.25ppm) or below per cell |
|     | Packaging                | Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).
|     | Resin materials          | Less than 0.0075wt% (75ppm) |
|     | **Applicable laws and regulations/ Environmental label criteria:** EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Batteries; EU Battery directive (2006/66/EC), Taiwan Green Mark, Packaging; EU Packaging directive (94/62/EC) |
| 3   | Cadmium and its compounds | other than those listed below | Ban on intentional use and 0.01 wt% or below Exemptions: -
|     | Batteries                | 0.0005wt% (5ppm) or below per cell |
|     | Packaging                | Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).
|     | Resin materials          | Less than 0.0075wt% (75ppm) |
|     | **Applicable laws and regulations/ Environmental label criteria:** EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Resin materials; Denmark Prohibition of Sales, Import, and Manufacture of Cadmium-containing Products, Batteries; EU Battery directive (2006/66/EC), Taiwan Green Mark, Packaging; EU Packaging directive (94/62/EC) |
| 4   | Hexavalent chromium compounds | other than those listed below | Ban on intentional use and 0.1 wt% or below Exemptions: -
|     | Packaging                | Total amount of a heavy metal, such as lead, mercury, cadmium and hexavalent chromium shall be less than 0.01 wt % (less than 100ppm).
<p>|     | <strong>Applicable laws and regulations/ Environmental label criteria:</strong> EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Packaging; EU Packaging directive (94/62/EC) |
| 5   | Polychlorinated biphenyls (PCBs) | All | Ban on intentional use and 0.1 wt% or below |
|     | <strong>Applicable laws and regulations/ Environmental label criteria:</strong> EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII) |
| 6   | Polychlorinated diphenyl ethers (PCDEs) | All | Ban on intentional use and 0.1 wt% or below |
|     | <strong>Applicable laws and regulations/ Environmental label criteria:</strong> EU RoHS directive (2011/65/EU), EU REACH regulation (EC) No1907/2006 (Annex XVII), Chemical Substances Control Law; Class I Specified Chemical Substances |
| 7   | Polychlorinated biphenyl (PCB) compounds and their specific alternative substances | other than those listed below | Ban on intentional use |
|     | Supply materials         | Ban on intentional use and 0.005wt% (50ppm) or below |
|     | <strong>Applicable laws and regulations/ Environmental label criteria:</strong> EU REACH regulation (EC) No1907/2006 (Annex XVII), Chemical Substances Control Law; Class I Specified Chemical Substances |</p>
<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scope</th>
<th>Thresholds/ Exemptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Polychlorinated terphenyls (PCTs)</td>
<td>other than those listed below</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Supply materials</td>
<td></td>
<td>Ban on intentional use and 0.005wt% (50ppm) or below</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>EU REACH regulation (EC) No1907/2006 (Annex XVII)</td>
</tr>
<tr>
<td>9</td>
<td>Asbestos</td>
<td>All</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>EU REACH regulation (EC) No1907/2006 (Annex XVII), USA Toxic Substances Control Act (TSCA), Industrial Safety and Health Act; Prohibition substances of Manufacturing</td>
</tr>
<tr>
<td>10</td>
<td>Specific organotin compounds (TBTO, Tri-substituted organostannic compounds)</td>
<td>All</td>
<td>Ban on intentional use and 0.1 wt% or below (conversion by weight of tin)</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>EU REACH regulation (EC) No1907/2006 (Annex XVII), Chemical Substances Control Law; Class II Specified Chemical Substances</td>
</tr>
<tr>
<td>11</td>
<td>Dibutyltin (DBT) compounds</td>
<td>All</td>
<td>0.1 wt% or below (conversion by weight of tin)</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>EU REACH regulation (EC) No1907/2006 (Annex XVII)</td>
</tr>
<tr>
<td>12</td>
<td>Dimethyl fumarate (DMF)</td>
<td>All</td>
<td>Ban on intentional use and less than 0.00001wt%</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>EU REACH regulation (EC) No1907/2006 (Annex XVII)</td>
</tr>
<tr>
<td>13</td>
<td>Shortchain chlorinated paraffins (C10-C13)</td>
<td>All</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>EU POPs regulation (EC) No 850/2004</td>
</tr>
<tr>
<td>14</td>
<td>Polychlorinated naphthalene (more than 1 of chlorine atoms)</td>
<td>All</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>EU POPs regulation (EC) No 850/2004, Chemical Substances Control Law; Class I Specified Chemical Substances</td>
</tr>
<tr>
<td>15</td>
<td>Perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>other than those listed below</td>
<td>For textiles and other coated parts, less than 1 μg/m2. For any products, parts and materials other than the above, less than 0.1wt%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Exemptions: -</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>· Any photoresists or anti-reflective coatings for photolithography processes (AIS use code: PFOS-1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>· Any photographic coatings applied to films, papers, or printing plates (AIS use code: PFOS-2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Resin materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>less than 0.1wt%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Supply materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ban on intentional use and less than 0.001wt%</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>POPs convention, EU POPs regulation (EC) No 850/2004, Canada PFOS regulations (SOR/2008-974), Chemical Substances Control Law; Class I Specified Chemical Substances</td>
</tr>
<tr>
<td>16</td>
<td>Perfluorooctanoic acid (PFOA) and its salts and esters</td>
<td>other than those listed below</td>
<td>For textiles and other coated parts, less than 1 μg/m2. For any products, parts and materials other than the above, less than 0.1wt%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Resin materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>less than 0.1wt%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Supply materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ban on intentional use and less than 0.001wt%</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>Norway Prohibition on Certain Hazardous Substances in Consumer Products</td>
</tr>
<tr>
<td>17</td>
<td>2-benzotriazol-2-yl-4,6-di-tert-butylphenol</td>
<td>All</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:</td>
<td></td>
<td>Chemical Substances Control Law; Class I Specified Chemical Substances</td>
</tr>
<tr>
<td>No.</td>
<td>Chemical substance group</td>
<td>Scope</td>
<td>Thresholds/ Exemptions</td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------------------------------------------------------------------------</td>
<td>-----------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>18</td>
<td>Hexabromocyclododecane (HBCDD)</td>
<td>All</td>
<td>Ban on intentional use and 0.01 wt% or below</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: POPs convention, Chemical Substances Control Law; EU POPs regulation (EU) No 2016/293</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)</td>
<td>All</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Exemptions: rubber additives</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Canada the Prohibition of Certain Toxic Substances Regulations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Ozone-depleting substances</td>
<td>All</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Act on the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Arsenic compounds</td>
<td>Packaging (wood)</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Cobalt chloride</td>
<td>Packaging (desiccant)</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Polycyclic Aromatic Hydrocarbons (PAH) [specific 8 types / 18 types] (see Appendix 2. PAHs list.)</td>
<td>Resin materials/Supply materials</td>
<td>Specific 8 types of PAHs: less than 0.0001 wt% respectively; and total of 18 types of PAHs: less than 0.02 wt%.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power cord</td>
<td>0.002 wt% (20ppm) or below in Benzo[a]pyrene and 0.02 wt% (200ppm) or below in total specific 18 PAHs.</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: EU REACH regulation (EC) No1907/2006 (Annex XVII), China; &quot;Ten-wheels&quot; mark</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Mirex</td>
<td>Resin materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: EU POPs regulation (EC) No 850/2004, Chemical Substances Control Law; Class I Specified Chemical Substances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Hexachlorobenzene</td>
<td>Resin materials/Supply materials</td>
<td>Ban on intentional use (Ban on intentional use of pigments including HCB higher than the BAT value)</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Chemical Substances Control Law; Class I Specified Chemical Substances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Chlorinated paraffins (excluding Short-chain chlorinated paraffins (C10-C13))</td>
<td>Printed circuit boards (PWB)</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 171)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Halogenated organic compounds and Halogenated polymers</td>
<td>Packaging (plastic)</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Northern Europe: Nordic Swan, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Halogenated Flame Retardants</td>
<td>Resin materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 171), Japan; Eco Mark etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Halogenated polymers (excluding fluorinated plastic.)</td>
<td>Resin materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 171), Japan; Eco Mark etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Specific phthalate (DEHP, BBP, DBP, DnHP, DIMP, DIDP, DNOP)</td>
<td>Resin materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: China; &quot;Ten-wheels&quot; mark</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Azo compounds forming specific amines (Azo compounds that form over 30ppm of specific amines listed on)</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>№</td>
<td>Chemical substance group</td>
<td>Scope</td>
<td>Thresholds/ Exemptions</td>
</tr>
<tr>
<td>----</td>
<td>--------------------------</td>
<td>------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>32</td>
<td>Selenium and its compounds</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
</tr>
<tr>
<td>33</td>
<td>Nickel and its compounds</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
</tr>
<tr>
<td>34</td>
<td>Organotin compounds</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>(excluding specific organotin compounds and dibutyltin (DBT) compounds)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Korea; Eco-Mark</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
</tr>
<tr>
<td>36</td>
<td>EU REACH regulation (EC) No1907/2006 Candidate substances of very high concern (SVHC)</td>
<td>Resin materials/ Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
</tr>
<tr>
<td>37</td>
<td>EU REACH regulation (EC) No1907/2006 Annex VII Restricted substances</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> EU REACH regulation (EC) No1907/2006 (Annex XVII)</td>
</tr>
<tr>
<td>38</td>
<td>CLP regulation (EC) 1272/2008 Annex VI Table 3.1 CMR Cat.1A, 1B, 2 (Table3.2 CMR Cat.1-3)</td>
<td>Resin materials/ Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> EU REACH regulation (EC) No1907/2006 (Annex XVII), Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
</tr>
<tr>
<td>40</td>
<td>Germany: TRGS905 CMR Cat.1-3</td>
<td>Resin materials/ Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
</tr>
<tr>
<td>41</td>
<td>Germany: MAK CPM (C Cat.1-2, P Cat.A-B, M Cat.1-2)(excluding antimony compounds.)</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Voluntary standards</td>
</tr>
<tr>
<td>42</td>
<td>USA: OSHA 1910 Subpart Z</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Voluntary standards</td>
</tr>
<tr>
<td>43</td>
<td>USA: EPA Carcinogenicity; A, B1, B2</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Applicable laws and regulations/ Environmental label criteria:</strong> Voluntary standards</td>
</tr>
</tbody>
</table>
2-2. Restricted Substances in Products

"Restricted Substances in Products" refers to chemical substances whose future use in our products is prohibited according to laws and regulations at home and abroad as well as environmental label criteria. Restricted substances in products will be designated as banned substances in products after "Standards on the Management of Certain Chemical Substances" are revised typically 6 months prior to our scheduled prohibition date. In consideration of the changeover period to the replacements, the scheduled prohibition date is normally set to be 1 year prior to the legally required deadline.

2-2-1. List of restricted substances in products

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scope</th>
<th>Thresholds/ Exemptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>44</td>
<td>USA: NTP Carcinogenicity; K, R</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Voluntary standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>California: Proposition 65 (cancer, developmental)</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Voluntary standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>ACGIH Carcinogenicity; 1A, A2, A3 (excluding carbon black and titanium dioxide.)</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Voluntary standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>IARC Group 1, 2A, 2B (excluding carbon black and titanium dioxide.)</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Korea; Eco-Mark, Voluntary standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Japan Society for Occupational Health; Class 1, 2A, 2B (excluding carbon black.)</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Voluntary standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>Japan: Chemical Substances Control Law; Class I, II Specified Chemical Substances</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; Chemical Substances Control Law</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Japan: Industrial Safety and Health Act; Prohibition substances of Manufacturing, Permission substances for Manufacturing</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act, Voluntary standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Japan: Industrial Safety and Health Act; mutagens (chemicals with strong mutagenicity)</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act, Voluntary standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Korea: Toxic Chemicals Control Act; Prohibited substances, Restricted substances</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Korea; Toxic Chemicals Control Act</td>
<td></td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>China: List of Toxic Chemicals Severely Restricted for Import and Export</td>
<td>Supply materials</td>
<td>Ban on intentional use</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: China; First import of chemicals and toxic chemicals import and export of environmental regulations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Chemical substance group</td>
<td>CAS No.</td>
<td>Scope</td>
</tr>
<tr>
<td>-----</td>
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</tr>
<tr>
<td>3</td>
<td>Benzylbutylphthalate (BBP)</td>
<td>85-68-7</td>
<td>All</td>
</tr>
<tr>
<td>4</td>
<td>Diisobutyl phthalate (DIBP)</td>
<td>84-69-5</td>
<td>All</td>
</tr>
<tr>
<td>5</td>
<td>Lead and its compounds</td>
<td>-</td>
<td>Exempt uses</td>
</tr>
</tbody>
</table>

Exempt uses:
- Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight (RoHS Exemption: 6a)
- Lead as an alloying element in aluminium containing up to 0.4 % lead by weight (RoHS Exemption: 6b)
- Copper alloy containing up to 4 % lead by weight (RoHS Exemption: 6c)
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) (RoHS Exemption: 7a)
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound (RoHS Exemption: 7c-I)
- Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher (RoHS Exemption: 7c-II)
- Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors (RoHS Exemption: 7c-IV)
- Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages (RoHS Exemption: 15)
- Lead in cermet-based trimmer potentiometer elements (RoHS Exemption: 34)

Applicable laws and regulations/ Environmental label criteria: All; EU RoHS directive (2011/65/EU)
**2-3. Monitored Substances in Products**

"Monitored Substances in Products" refers to substances for which, according to laws and regulations at home and abroad, such procedures as labeling, notification and communication are required.

**2-3-1. List of monitored substances in products**

<Table. 2-3-1>

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scopes</th>
<th>Scope of JAMP investigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Beryllium oxide (BeO)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>Formaldehyde</td>
<td>All (Composite Wood)</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>Perchlorates</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>EU REACH regulation (EC) No1907/2006 Candidate substances of very high concern (SVHC)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>IEC62474 (JIG-101)</td>
<td>All</td>
<td>Yes</td>
</tr>
<tr>
<td>6</td>
<td>Substances H372, H373, H400, H410, H411, H412, H413 on CLP regulation (EC) 1272/2008 Annex VI Table3.1 (Substances R48, R50, R51, R53 on Table3.2) (flame retardants)</td>
<td>Resin materials</td>
<td>No</td>
</tr>
<tr>
<td>7</td>
<td>CLP regulation (EC) 1272/2008 Annex VI Hazardous substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>8</td>
<td>Japan: Chemical Substances Control Law; Monitoring Chemical Substances, Priority Assessment Chemical Substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>9</td>
<td>Japan: Industrial Safety and Health Act; Hazardous substances to be labeled</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>10</td>
<td>Japan: Industrial Safety and Health Act; Notifiable substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>11</td>
<td>Japan: PRTR Law; Class I, II designated chemical substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>12</td>
<td>Japan: Poisonous and Deleterious Substances Control Law; Poisonous substances, Deleterious substances</td>
<td>Supply materials</td>
<td>No (Partly)</td>
</tr>
<tr>
<td>13</td>
<td>Korea: Toxic Chemicals Control Act; Toxic substances, Substances subject to authorization, Accident Precaution Chemicals</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>14</td>
<td>Substances regulated by USA Toxic Substances Control Act (TSCA) (Article 4, 5, 7, 8, 12, 13 etc.)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>15</td>
<td>China: Regulations on Safe Management of Hazardous Chemicals target substances (Inventory of Hazardous Chemicals, Inventory of Highly Toxic Chemicals, Inventory of Dangerous Goods)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>No.</td>
<td>Chemical substance group</td>
<td>Scopes</td>
<td>Scope of JAMP investigation</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------------------------------------------</td>
<td>-------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>16</td>
<td>Taiwan: Regulation of Labeling and Hazard Communication of Dangerous and Harmful Materials target substances (Phase I priority substances, Phase II substances, Phase III substances)</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>17</td>
<td>USA: OSHA (PEL) listed substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>18</td>
<td>USA: ACGIH (TLVs) listed substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>19</td>
<td>Australia: NHOSC1003 (TWA/STEL) listed substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>20</td>
<td>Japan: Society for Occupational Health; Listed substances in Recommendation of Occupational Exposure Limits</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>21</td>
<td>China: Workplace Exposure Limits listed substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>22</td>
<td>USA: RCRA Hazardous Waste</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>23</td>
<td>USA: EPCRA target substances: SARA Title III; Section 302, 313</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>24</td>
<td>USA: CERCLA Hazardous Substances</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>25</td>
<td>USA: Clean Air Act (CAA) - air pollutants</td>
<td>Supply materials</td>
<td>No</td>
</tr>
<tr>
<td>26</td>
<td>California: Code of Regulations, Title 22 Hazardous Wastes</td>
<td>Supply materials</td>
<td>No</td>
</tr>
</tbody>
</table>

2-3-2. Scope of monitored substances in products, monitoring thresholds, related laws and regulations

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scopes</th>
<th>Thresholds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Beryllium oxide (BeO)</td>
<td>All</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Industry guidance, Customer requests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Formaldehyde</td>
<td>All (Composite Wood*)</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: California; Formaldehyde Regulation for Composite Wood Products</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Composite Wood Products (HWPW-VC, HWPW-CC, PB, MDF, Thin MDF) must comply with the Californian formaldehyde emission regulations (CCR Title17, Section 93120-93120.12).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Perchlorates</td>
<td>All</td>
<td>more than 6 ppb</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: California; Perchlorate Contamination Prevention Act of 2003</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>EU REACH regulation (EC) No1907/2006 Candidate substances of very high concern (SVHC) (Appendix 3. see SVHC List)</td>
<td>All</td>
<td>more than 0.1 wt% per the parts</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:EU REACH regulation (EC) No1907/2006</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>IEC62474 (JIG-101)</td>
<td>All</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria:EPEAT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Substances H372, H373, H400, H410, H411, H412, H413 on CLP regulation (EC) 1272/2008 Annex VI Table3.1 (Substances R48, R50, R51, R53 on Table3.2) ( flame retardants)</td>
<td>Resin materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Northern Europe; ECO DECLARATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>CLP regulation (EC) 1272/2008 Annex VI Hazardous substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: CLP regulation (EC) 1272/2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Japan:Chemical Substances Control Law; Monitoring Chemical Substances, Priority Assessment Chemical Substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; Chemical Substances Control Law</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Japan:Industrial Safety and Health Act; Hazardous substances to be labeled</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Japan:Industrial Safety and Health Act; Notifiable substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; Industrial Safety and Health Act</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Chemical substance group</td>
<td>Scopes</td>
<td>Thresholds</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------------------------------------------</td>
<td>----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>11</td>
<td>Japan: PRTR Law; Class I, II designated chemical substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; PRTR Law</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Japan: Poisonous and Deleterious Substances Control Law; Poisonous substances, Deleterious substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Japan; Poisonous and Deleterious Substances Control Law</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Korea: Toxic Chemicals Control Act; Toxic substances, Substances subject to authorization, Accident Precaution Chemicals</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Korea; Toxic Chemicals Control Act</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Substances regulated by USA Toxic Substances Control Act (TSCA) (Article 4, 5, 7, 8, 12, 13 etc.)</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: USA; Toxic Substances Control Act (TSCA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>China: Regulations on Safe Management of Hazardous Chemicals target substances (Inventory of Hazardous Chemicals, Inventory of Highly Toxic Chemicals, Inventory of Dangerous Goods)</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: China; Regulations on Safe Management of Hazardous Chemicals target substances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Taiwan: Regulation of Labeling and Hazard Communication of Dangerous and Harmful Materials target substances (Phase I priority substances, Phase II substances, Phase III substances)</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Taiwan; Regulation of Labeling and Hazard Communication of Hazardous Chemicals target substances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>USA: OSHA (PEL) listed substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: USA; Hazard Communication Standard (HCS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>USA: ACGIH (TLVs) listed substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: USA; Hazard Communication Standard (HCS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Australia: NHOSC1003 (TWA/STEL) listed substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Australia; Occupational Safety and Health Act</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Japan: Society for Occupational Health; Listed substances in Recommendation of Occupational Exposure Limits</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS) (JIS Z7253: 2012)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>China: Workplace Exposure Limits listed substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: China; General Rules for Preparation of Precautionary Label for Chemicals (GB15258-2009)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>USA: RCRA Hazardous Waste</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: USA; Resource Conservation and Recovery Act (RCRA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>USA: EPCRA target substances: SARA Title III; Section 302, 313</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: USA; Emergency Planning and Community Right-to-Know Act (EPCRA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>USA: CERCLA Hazardous Substances</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: USA; The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>USA: Clean Air Act (CAA) - air pollutants</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: USA; Clean Air Act (CAA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>California: Code of Regulations, Title 22 Hazardous Wastes</td>
<td>Supply materials</td>
<td>Intentional addition</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: California; Code of Regulations, Title 22 Hazardous Wastes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2-4. Substances in Products to be surveyed

Substances in Products to be surveyed are designated as JAMP declarable substances.

2-4-1. JAMP declarable substance list (Ver.4.070)

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Japan: Chemical Substances Control Law; Class I Specified Chemical Substances</td>
<td>Substances-Mixture (MSDSPlus)</td>
</tr>
<tr>
<td>2</td>
<td>Japan: Industrial Safety and Health Act; Substances Prohibited of Manufacturing etc.</td>
<td>Substances-Mixture (MSDSPlus)</td>
</tr>
<tr>
<td>3</td>
<td>Japan: Poisonous and Deleterious Substances Control Law; Specified Poisonous Substances</td>
<td>Substances-Mixture (MSDSPlus)</td>
</tr>
<tr>
<td>4</td>
<td>EU RoHS directive; Regulated substances</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>5</td>
<td>EU ELV directive; Regulated substances</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>6</td>
<td>EU CLP regulation Annex VI Table 3.1 CMR-Cat.1A, 1B</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>7</td>
<td>EU REACH regulation Annex XVII Restricted substances (Excluding EU CLP regulation Annex VI Table 3.1 CMR-Cat.1A, 1B)</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>8</td>
<td>EU REACH regulation Candidate List of substances of very high concern (SVHC)</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>9</td>
<td>EU POPs regulation Annex I</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>10</td>
<td>EGIS PBT Fulfilled</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>11</td>
<td>GADSL</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
<tr>
<td>12</td>
<td>IEC 62474 (substance list)</td>
<td>Substances-Mixture (MSDSPlus), Article (AIS)</td>
</tr>
</tbody>
</table>

2-5. Banned Substances in Production

"Banned Substances in Production" refers to substances that is banned in the production process.

2-5-1. List of Banned Substances in Production

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chlorofluorocarbon (CFC)</td>
<td>All</td>
</tr>
<tr>
<td>2</td>
<td>Hydrobromofluorocarbon (Specific halon)</td>
<td>All</td>
</tr>
<tr>
<td>3</td>
<td>Carbon Tetrachloride (Tetrachloromethane)</td>
<td>All</td>
</tr>
<tr>
<td>4</td>
<td>1,1,1-Trichloroethane (methyl chloroform)</td>
<td>All</td>
</tr>
<tr>
<td>5</td>
<td>Bromochloromethane</td>
<td>All</td>
</tr>
<tr>
<td>6</td>
<td>Bromomethane (methyl chloroform)</td>
<td>All</td>
</tr>
<tr>
<td>7</td>
<td>Hydrobromofluorocarbon (HBFC)</td>
<td>All</td>
</tr>
<tr>
<td>8</td>
<td>Hydrochlorofluorocarbon (HCFC)</td>
<td>Printed circuit board mounting process/ Packaging process</td>
</tr>
</tbody>
</table>
2-5-2. Applicable processes and laws for Banned Substances in Production

<table>
<thead>
<tr>
<th>No.</th>
<th>Chemical substance group</th>
<th>Scopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chlorofluorocarbon (CFC)</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: All; Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Hydrobromofluorocarbon (Specific halon)</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Carbon Tetrachloride (Tetrachloromethane)</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1,1,1-Trichloroethane (methyl chloroform)</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Bromochloromethane</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Bromomethane (methyl chloroform)</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Hydrobromofluorocarbon (HBFC)</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Hydrochlorofluorocarbon (HCFC)</td>
<td>Printed circuit board mounting process*, Packaging process</td>
</tr>
<tr>
<td></td>
<td>Applicable laws and regulations/ Environmental label criteria: Montreal Protocol, Germany; The Blue Angel Mark (RAL-UZ 171), Japan: Eco Mark etc.</td>
<td></td>
</tr>
</tbody>
</table>

*The scope of a part that includes a printed circuit board also covers its mounting process.

Chapter 3. Request to customers

3-1. Compliance with "Standards on the Management of Certain Chemical Substances"

For items whose compliance with our standards is instructed our drawings and requirements, please ensure that the banned substances in products respectively designated per subject according to the latest our standards are not used. For banned substances in products whose thresholds are set, please ensure that they are less than the threshold value. Please ensure that our standards are provided to your subcontractors and your suppliers, and that they are instructed to strictly adhere to these standards.

If revision is made to our standards and banned substances in products is newly added, please ensure that the banned substances in products will not be used since the implementation date of the revised standards.

* If drawings and requirements specifications include instructions on such items as halogen-free products and non-chlorine bleach, please also comply with such instructions.

3-2. System for management of Substances Included in Products

To ensure that our standards are continually adhered to, we request that you refer to the Guidelines for the Management of Chemical Substances in Products issued by JAMP and establish your own chemical substance management system.

Please ensure that these management instructions are also given to your subcontractors and your suppliers. In order to perform continuous and reliable management of Substances Included in Products, it is necessary that a management system for chemical substances covering the entire supply chain be built. Please note that we may perform audits to verify your management system on chemical substances.

3-3. Documents to be submitted

For each delivered product, please provide a non-use certificate and a JAMP AIS(MSDS plus) by the specified date. Please also submit separately a resin material data sheet for resin materials, a safety data sheet (SDS) for supply materials, and confirmation of material safety/conformity with laws and regulation.

If revision is made to our standards and banned substances (banned substances in products, banned substances in production process) are added or scope, thresholds or exemptions are changed, please re-submit the non-use certificate. Please also re-submit JAMP AIS(MSDS plus) if restricted substances in products and monitored substances in Products are added to it.
3-3-1. Non-use Certificate
Our chemical substance management system will request submission per item.
For certain customers, the requests will be sent via email.
For the non-use certificate, the following formats are available to fit their respective target categories.
I. Non-use Certificate
Firstly, please select a component category (general parts / printed circuit board / power cord / battery / packing materials). Banned substances in products and threshold values vary according to their component category.
II. Non-use Certificate (Resin materials)
III. Non-use Certificate (Supply materials)

3-3-2. JAMP AIS/MSDS plus
Our chemical substance management system will request submission per item.
For certain customers, the requests will be sent via email.
Please download the latest format of JAMP AIS/MSDSplus from the website of JAMP.
In filing in the JAMP AIS/MSDSplus, please refer to the “JAMP AIS-MSDSplus Practical Guide” on the JAMP website or the “JAMP AIS Preparation Guide” on our chemical substance management system.
For resin materials and sheet metal materials of some components which are specified by the drawings, our unique AIS preparation means are specified.
In creating JAMP AIS, please obtain the AIS and MSDSPlus of the components and materials from your sub-customers.
JAMP (Joint Article Management Promotion-consortium): http://www.jamp-info.com/dl

3-3-3. Other formats
The formats for the "resin material information sheet" for resin materials and the "confirmation of material safety/conformity with laws and regulation" will be accompanied by a request email.
*To respond the requests from our customer, substances included in products may be individually added, and then, additional request be made for answering survey or non-use or separate certification documents to acquire ecolabels.
*Please note that sub-materials such as grease, oil or adhesives are treated as chemicals, we may conduct a survey of substances included in products as we do for our supply products.

3-4. Provision of analytical data
If use of banned substances in products is suspected, it may be individually requested that the analysis data on the material be submitted. We will individually notify subject items (sections), reason of request and analysis method.

Chapter 4. Miscellaneous

4-1. Modification of information on Substances Included in Products
If any change is made to the submitted information on Substances Included in Products on JAMP AIS and others, please contact our department in charge and re-submit the AIS.

4-2. Handling of information on Substances Included in Products
The information on substances included in products provided by customers will be used for our substances included in products management. Please also note that for the purpose of disclosure to customers or upon request of administrative agencies, this information may be provided to a third party as part of our information on substances included in products.

4-3. Treatment of personal information
Your personal information will be securely stored and strictly used within the purpose of the management of substances included in products.

4-4. Contacts
CSR Division, Corporate General Affairs Division : kdc.green@dc.kyocera.com
For inquiry on our company, our standards or how to fill in JAMP AIS, please contact the following email.
4-5. Reference URLs

- EU REACH Regulation (EC) No1907/2006 SVHC
  http://echa.europa.eu/candidate-list-table
- EU REACH Regulation (EC) No1907/2006 Annex XIIIV Restricted substances
- EU CLP Regulation (EC) 1272/2008 Annex VI
- USA OSHA 1910 Subpart Z
- USA National Toxicology Program (NTP) - Carcinogenicity evaluation: Independent administrative agency
- California Proposition 65(cancer, developmental)
  http://www.oehha.ca.gov/prop65/prop65_list/NewList.html#list
- IARC (International Agency for Research on Cancer)
  http://monographs.iarc.fr/ENG/Classification/index.php
- Japan Society for Occupational Health - Carcinogenicity evaluation: Incorporated administrative agency
- Japan Chemical Substances Control Law - Class I, II Specified Chemical Substances
  http://www.env.go.jp/chemi/kaigaku/kashinkaisei.html
- Japan Industrial Safety and Health Act - Prohibition substances of Manufacturing, Permission substances for Manufactur
Incorporated administrative agency
- Japan Industrial Safety and Health Act - mutagens (chemicals with strong mutagenicity)
  http://anzeninfo.mhlw.go.jp/user/anzen/kaigaku/ankgc02.htm
- Japan PRTR Law - Class 1, 2 designated chemical substances
  http://www.meti.go.jp/policy/chemical_management/law/msds/2.html
- Japan Poisonous and Deleterious Substances Control Law - Poisonous substances, Deleterious substances
- Korea: Toxic Chemicals Control Act (TCCA) - Prohibited substances, Restricted substances
  Korea's National Institute of Environmental Research
  See the chemical information search system, National Institute of Environmental Health Sciences. http://ncis.nier.go.kr/ncis/Index
- Germany: TRGS905 - No reference URL. Related publications are available from the following: Japan Chemical Industry Ecology-Toxicology & Information Center (JETOC) (http://www.jetoc.or.jp/)
- Germany: MAK (List of MAK and BAT Values) - No reference URL.
  Related publications are available from the following:
  John Wiley & Sons Limited, Distribution Centre (http://www.wiley-vch.de/general/add_books.html)
- American Conference of Governmental Industrial Hygienists (ACGIH) - No reference URL.
  Related publications are available from the following: ACGIH (http://www.acgih.org/home)
### 4-6. Revision record

<Table. 4-6>

<table>
<thead>
<tr>
<th>Version No.</th>
<th>Issue date</th>
<th>Revision details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22-Dec-03</td>
<td>Establishment</td>
</tr>
<tr>
<td>2</td>
<td>19-Mar-07</td>
<td>2 substances added to banned materials; 5 substance groups added to managed substances; part of managed substances removed. Added RoHS directive exemption list, list of substances banned for use in consumables, list of managed substances in consumables.</td>
</tr>
<tr>
<td>3</td>
<td>01-Apr-08</td>
<td>PFOS added to banned / managed substances. PFOS example substance list added. 1st SVHC added to managed substances. SVHC target substance list added. (Ver3.01)</td>
</tr>
<tr>
<td>4</td>
<td>16-Oct-09</td>
<td>DMF added to banned / managed substances. Formaldehyde plywood regulations added to managed substances. (Ver4)</td>
</tr>
<tr>
<td>5</td>
<td>28-Jun-10</td>
<td>Tri-substituted organostannic compounds added to banned substances. Exempted items added. (Ver5)</td>
</tr>
<tr>
<td>6</td>
<td>05-Apr-11</td>
<td>DBT, DOT, HBCDD, EU-approved substances added to banned / managed substances. 4th SVHCs added to managed substances. Exemption list updated. (Ver6)</td>
</tr>
<tr>
<td>7</td>
<td>05-Aug-13</td>
<td>Second and third EU-approved substances added to banned substances. Removed exemptions on cadmium. 9th SVHCs and fluorinated greenhouse gasses added to managed substances.</td>
</tr>
<tr>
<td>8</td>
<td>15-Jan-14</td>
<td>Scope and applications of banned substances expanded. PAHs and PFOAs added to banned / managed substances. 10th SVHCs added to managed substances. Managed substance HBCDD removed.</td>
</tr>
<tr>
<td>9</td>
<td>15-Jul-14</td>
<td>Exemption of banned substance DBT eliminated. Threshold of mercury compounds modified. Managed Substances in Consumables added. 11th SVHCs added to managed substances. Exempted items added.</td>
</tr>
<tr>
<td>10</td>
<td>23-Apr-15</td>
<td>With the shift to the use of AIS/MSDSplus provided by JAMP in the survey of substances included in products, our standards were thoroughly re-examined. Major Revisions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• BNST classified as banned substances in products.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Changed lead, mercury and cadmium thresholds for banned substances in products in batteries.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Exemptions of PFOS of banned substances in roducts changed to the expression of exemptions of JAMP AIS.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Changed thresholds of PAHs (banned substances in products) for resin materials. “PBT substances / vPvB substances” and “substances which are candidates for approval (SVHC)” added to banned substances in products for resin materials.</td>
</tr>
</tbody>
</table>
### Version No. | Issue date | Revision details
--- | --- | ---
10.1 | 21-Aug-15 | Changed the JAMP declarable substance list to Ver.4.040. Added 13th SVHC. (Appendix 3. No.162 - 163) Added "Dioctyltin(DOT) compounds (JAMP-SN0073)" and "Lithium perchlorate trihydrate" in the Appendix 4 "Example substance list". Correction of errors in writing.

10.2 | 15-Feb-16 | Changed the JAMP declarable substance list to Ver.4.050. Added 14th SVHC. (Appendix 3. No.164 - 168) Added the CAS number of substances covered by SVHC in Appendix 3. Removed the RoHS exemption 7b of Lead because there is no actual use in our products. Added the RoHS exemption 34 of Lead because there was actual use in our products.

10.3 | 01-Aug-16 | Changed the JAMP declarable substance list to Ver.4.060. Added 15th SVHC. (Appendix 3. No.169) Added the CAS number of substances covered by SVHC in Appendix 3. Revised the CAS number of example substances covered in Appendix 4. Changed the Reference URLs in Chapter 4.

10.4 | 06-Mar-17 | Changed the JAMP declarable substance list to Ver.4.070. Added 16th SVHC. (Appendix 3. No.170 - 173) Added the CAS number of substances covered by SVHC in Appendix 3. Changed the thresholds for HBCD of banned substances in products to "Ban on intentional use and 0.01wt% or below". Correction of errors in writing.
### Appendix 1. List of Specific Amines

A list of 22 specific amines in total of “Azo compounds to form specific amines” which is one of the banned chemicals.

<table>
<thead>
<tr>
<th>No.</th>
<th>Substance name</th>
<th>Chemical Formula</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4-amino azobenzene</td>
<td>C₆H₁₁N₃</td>
<td>60-09-3</td>
</tr>
<tr>
<td>2</td>
<td>o-anisidine</td>
<td>C₇H₉NO</td>
<td>90-04-0</td>
</tr>
<tr>
<td>3</td>
<td>2-naphthylamine</td>
<td>C₈H₇N</td>
<td>91-59-8</td>
</tr>
<tr>
<td>4</td>
<td>3,3’-dichlorobenzidine</td>
<td>C₆H₄Cl₂N₂</td>
<td>91-94-1</td>
</tr>
<tr>
<td>5</td>
<td>4-Aminodiphenyl</td>
<td>C₁₂H₁₁N</td>
<td>92-67-1</td>
</tr>
<tr>
<td>6</td>
<td>Benzidine</td>
<td>C₁₂H₁₀N₂</td>
<td>92-87-5</td>
</tr>
<tr>
<td>7</td>
<td>o-toluidine</td>
<td>C₆H₇N</td>
<td>95-53-4</td>
</tr>
<tr>
<td>8</td>
<td>4-chloro-o-toluidine</td>
<td>C₇H₈ClN</td>
<td>95-69-2</td>
</tr>
<tr>
<td>9</td>
<td>4-methyl-m-phenylenediamine</td>
<td>C₇H₁₀N₂</td>
<td>95-80-7</td>
</tr>
<tr>
<td>10</td>
<td>o-aminoazotoluene</td>
<td>C₁₄H₁₅N₃</td>
<td>97-56-3</td>
</tr>
<tr>
<td>11</td>
<td>5-nitro-o-toluidine</td>
<td>C₈H₇NO₂</td>
<td>99-55-8</td>
</tr>
<tr>
<td>12</td>
<td>4,4’-methylenebis[2-chloroaniline]</td>
<td>C₁₀H₁₁Cl₂N₂</td>
<td>101-14-4</td>
</tr>
<tr>
<td>13</td>
<td>4,4’-methylenedianiline</td>
<td>C₁₀H₁₀N₂</td>
<td>101-77-9</td>
</tr>
<tr>
<td>14</td>
<td>4,4’-oxydianiline</td>
<td>C₁₀H₁₀N₂O</td>
<td>101-80-4</td>
</tr>
<tr>
<td>15</td>
<td>r-chloroaniline</td>
<td>C₆H₆ClN</td>
<td>106-47-8</td>
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<tr>
<td>16</td>
<td>3,3’-Dimethoxybenzidine</td>
<td>C₁₄H₁₆N₂O₂</td>
<td>119-90-4</td>
</tr>
<tr>
<td>17</td>
<td>3,3’-dimethylbenzidine</td>
<td>C₁₄H₁₀N₂</td>
<td>119-93-7</td>
</tr>
<tr>
<td>18</td>
<td>6-methoxy-m-toluidine</td>
<td>C₆H₈NO</td>
<td>120-71-8</td>
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<tr>
<td>19</td>
<td>2,4,5-trimethylaniline</td>
<td>C₈H₁₀N</td>
<td>137-17-7</td>
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<tr>
<td>20</td>
<td>4,4’-thiodianiline</td>
<td>C₁₀H₁₀N₂S</td>
<td>139-65-1</td>
</tr>
<tr>
<td>21</td>
<td>4-methoxy-m-phenylenediamine</td>
<td>C₁₄H₁₆N₂O</td>
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</tr>
<tr>
<td>22</td>
<td>4,4’-methylenei-o-toluidine</td>
<td>C₁₄H₁₆N₂</td>
<td>838-88-0</td>
</tr>
</tbody>
</table>
Appendix 3. SVHC

A list of SVHCs which notification and information provision is required according to the EU REACH Regulation (EC No.1907/2006).

<table>
<thead>
<tr>
<th>No.</th>
<th>Substances group</th>
<th>CAS number</th>
<th>Date of inclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anthracene</td>
<td>120-12-7</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>2</td>
<td>4,4' - Diaminodiphenylmethane</td>
<td>101-77-9</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>3</td>
<td>Dibutyl phthalate</td>
<td>84-74-2</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>4</td>
<td>Cobalt dichloride</td>
<td>7646-79-9</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>5</td>
<td>Diarsenic pentaoxide</td>
<td>1303-28-2</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>6</td>
<td>Diarsenic trioxide</td>
<td>1327-53-3</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>7</td>
<td>Sodium dichromate</td>
<td>7789-12-0</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>8</td>
<td>5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)</td>
<td>81-15-2</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>9</td>
<td>Bis (2-ethyl(hexyl)phthalate) (DEHP)</td>
<td>117-81-7</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>10</td>
<td>Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified*1</td>
<td>25637-99-4</td>
<td>28.10.2008</td>
</tr>
<tr>
<td></td>
<td>(α - HBCDD, β-HBCDD, γ-HBCDD)</td>
<td>3194-55-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(134237-50-6, 134237-51-7, 134237-52-8)</td>
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</tr>
<tr>
<td>11</td>
<td>Alkanes, C10-13, chloro*1(Short Chain Chlorinated Paraffins)</td>
<td>85535-84-8</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>12</td>
<td>Bis(trIBUTYLTIN)oxide (TBTO)</td>
<td>56-35-9</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>13</td>
<td>Lead hydrogen arsenate</td>
<td>7784-40-9</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>14</td>
<td>Triethyl arsenate</td>
<td>15606-95-8</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>15</td>
<td>Benzyl butyl phthalate (BBP)</td>
<td>85-68-7</td>
<td>28.10.2008</td>
</tr>
<tr>
<td>16</td>
<td>Anthracene oil</td>
<td>90640-80-5</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>17</td>
<td>Anthracene oil, anthracene paste, distn. Lights</td>
<td>91995-17-4</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>18</td>
<td>Anthracene oil, anthracene paste, anthracene fraction</td>
<td>91995-15-2</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>19</td>
<td>Anthracene oil, anthracene-low</td>
<td>90640-82-7</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>20</td>
<td>Anthracene oil, anthracene paste</td>
<td>90640-81-6</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>21</td>
<td>Pitch, coal tar, high temp.</td>
<td>65996-93-2</td>
<td>13.01.2010</td>
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<tr>
<td>22</td>
<td>2,4-Dinitrotoluene</td>
<td>121-14-2</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>23</td>
<td>Diisobutyl phthalate</td>
<td>84-69-5</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>24</td>
<td>Lead chromate</td>
<td>7758-97-6</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>25</td>
<td>Lead chromate molybdate sulphate red (C.I. Pigment Red 104)</td>
<td>12656-85-8</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>26</td>
<td>Lead sulfocromate yellow (C.I. Pigment Yellow 34)</td>
<td>1344-37-2</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>27</td>
<td>Tris(2-chloroethyl)phosphate</td>
<td>115-96-8</td>
<td>13.01.2010</td>
</tr>
<tr>
<td>28</td>
<td>Acrylamide</td>
<td>79-06-1</td>
<td>30.03.2010</td>
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<td>29</td>
<td>Trichloroethylene</td>
<td>79-01-6</td>
<td>18.06.2010</td>
</tr>
<tr>
<td>30</td>
<td>Boric acid</td>
<td>10043-35-3</td>
<td>18.06.2010</td>
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<td>11113-50-1</td>
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<td>31</td>
<td>Disodium tetraborate, anhydrous</td>
<td>1303-96-4</td>
<td>18.06.2010</td>
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<td>1330-43-4</td>
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<td>12179-04-3</td>
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<td>Tetraboron disodium heptaoxide, hydrate</td>
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<td>33</td>
<td>Sodium chromate</td>
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<td>18.06.2010</td>
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<tr>
<td>34</td>
<td>Potassium chromate</td>
<td>7789-00-6</td>
<td>18.06.2010</td>
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<tr>
<td>35</td>
<td>Ammonium dichromate</td>
<td>7789-09-5</td>
<td>18.06.2010</td>
</tr>
<tr>
<td>36</td>
<td>Potassium dichromate</td>
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<td>18.06.2010</td>
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<tr>
<td>37</td>
<td>Cobalt(II) sulphate</td>
<td>10124-43-3</td>
<td>15.12.2011</td>
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<tr>
<td>38</td>
<td>Cobalt(II) dinitrate</td>
<td>10141-05-6</td>
<td>15.12.2011</td>
</tr>
<tr>
<td>39</td>
<td>Cobalt (II) carbonate</td>
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</tr>
<tr>
<td>40</td>
<td>Cobalt(II) diacetate</td>
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<td>15.12.2011</td>
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<td>2-Methoxyethanol</td>
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<td>15.12.2011</td>
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<td>2-Ethoxyethanol</td>
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<td>15.12.2011</td>
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<tr>
<td>No.</td>
<td>Substances group</td>
<td>CAS number</td>
<td>Date of inclusion</td>
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<td>-----</td>
<td>----------------------------------------------------------------------------------</td>
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<td>43</td>
<td>Chromium trioxide</td>
<td>1333-82-0</td>
<td>15.12.2011</td>
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<td>44</td>
<td>Acids generated from chromium trioxide and their oligomers</td>
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<td>Group containing:</td>
<td>7738-94-5</td>
<td>15.12.2011</td>
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<tr>
<td></td>
<td>Chromic acid</td>
<td>13530-68-2</td>
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<tr>
<td></td>
<td>Dichromic acid</td>
<td>JAMP-SN0071*2</td>
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<td>Oligomers of chromic acid and dichromic acid</td>
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</tr>
<tr>
<td>45</td>
<td>2-Ethoxyethyl acetate</td>
<td>111-15-9</td>
<td>20.06.2011</td>
</tr>
<tr>
<td>46</td>
<td>Strontium chromate</td>
<td>7789-06-2</td>
<td>20.06.2011</td>
</tr>
<tr>
<td>47</td>
<td>1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)</td>
<td>68515-42-4</td>
<td>20.06.2011</td>
</tr>
<tr>
<td>48</td>
<td>Hydrazine</td>
<td>302-01-2</td>
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<td>7803-57-8</td>
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<td>49</td>
<td>1-Methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>20.06.2011</td>
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<tr>
<td>50</td>
<td>1,2,3-Trichloropropane</td>
<td>96-18-4</td>
<td>20.06.2011</td>
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<tr>
<td>51</td>
<td>1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)</td>
<td>71888-89-6</td>
<td>20.06.2011</td>
</tr>
<tr>
<td>52</td>
<td>Lead stynphate</td>
<td>15245-44-0</td>
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<tr>
<td>54</td>
<td>Lead dipicrate</td>
<td>6477-64-1</td>
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<td>55</td>
<td>Phenolphthalein</td>
<td>77-09-8</td>
<td>19.12.2011</td>
</tr>
<tr>
<td>56</td>
<td>2,2′-dichloro-4,4′-methyleneedianiline</td>
<td>101-14-4</td>
<td>19.12.2011</td>
</tr>
<tr>
<td>58</td>
<td>Trilead diarsenate</td>
<td>3687-31-8</td>
<td>19.12.2011</td>
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<td>59</td>
<td>Calcium arsenate</td>
<td>7778-44-1</td>
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<tr>
<td>61</td>
<td>Bis(2-methoxyethyl) ether</td>
<td>111-96-6</td>
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<td>62</td>
<td>1,2-dichloroethane</td>
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<td>19.12.2011</td>
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<td>63</td>
<td>4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tet-octyl phenol</td>
<td>140-66-9</td>
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<td>64</td>
<td>2-Methoxyaniline;  o-Anisidine</td>
<td>90-04-0</td>
<td>19.12.2011</td>
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<tr>
<td>65</td>
<td>Bis(2-methoxyethyl) phthalate</td>
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<tr>
<td>66</td>
<td>Formaldehyde, oligomeric reaction products with aniline (technical MDA)</td>
<td>25214-70-4</td>
<td>19.12.2011</td>
</tr>
<tr>
<td>68</td>
<td>Aluminosilicate Refractory Ceramic Fibres*4</td>
<td>JAMP-SN0007*2</td>
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<td>69</td>
<td>Pentazinc chromate octahydroxide</td>
<td>49663-84-5</td>
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<td>70</td>
<td>Potassium hydroxyoctaoxodizcatedichromate</td>
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<td>Dichromium tris(chromate)</td>
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<td>72</td>
<td>1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)</td>
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<td>73</td>
<td>1,2-dimethoxethane; ethylene glycol dimethy ether (EGDME)</td>
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<td>18.06.2012</td>
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<td>74</td>
<td>Diboron trioxide</td>
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<td>75</td>
<td>Formamide</td>
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<td>76</td>
<td>Lead(II) bis(methanesulfonate)</td>
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<td>18.06.2012</td>
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<td>77</td>
<td>1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)</td>
<td>2451-62-9</td>
<td>18.06.2012</td>
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<td>78</td>
<td>1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,SH)-trione (β-TGIC)</td>
<td>59653-74-6</td>
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<td>79</td>
<td>4,4′-bis(dimethylamino)benzophenone (Michier’s ketone)</td>
<td>90-94-8</td>
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<td>80</td>
<td>N,N,N′,N′-tetramethylyl-4,4′-methyleneaniline (Michier’s base)</td>
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<td>83</td>
<td>4,4′-bis(dimethylamino)-4″-(methylamino)ctyl alcohol*5</td>
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<td>84</td>
<td>o,o-Bis(4-[dimethylamino]phenyl)-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)*5</td>
<td>6786-83-0</td>
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<tr>
<td>85</td>
<td>Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)</td>
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<td>CAS number</td>
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<td>Diazene-1,2-dicarboxamide ([C,-azodi(formamide))</td>
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<td>94</td>
<td>4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated*9</td>
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<td>95</td>
<td>Methoxyacetic acid</td>
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<td>100</td>
<td>Lead bis(tetrafluoroorate)</td>
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<td>Lead titanium trioxide</td>
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<td>105</td>
<td>Silicic acid (H2Si2O5), barium salt (1:1), lead-doped*10</td>
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<td>108</td>
<td>1,2-Benzedicarboxylic acid, dipentylester, branched and linear</td>
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<td>111</td>
<td>1,2-diethoxyethane</td>
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<td>Dioxobis(stearato)trilead</td>
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<td>Pyrochlore, antimony lead yellow</td>
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<td>Sulfurous acid, lead salt, dibasic</td>
<td>62229-08-7</td>
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<td>122</td>
<td>Tetraethylead</td>
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<td>Furan</td>
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<td>4,4'-methylenedi-o-toluidine</td>
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<td>132</td>
<td>4-aminoazobenzene</td>
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<td>4-methyl-m-phenylenediamine (toluene-2,4-diamine)</td>
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<td>136</td>
<td>o-aminoazotoluene ([4-o-tolyazo-o-toluidine])</td>
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<td>139</td>
<td>Cadmium</td>
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<td>Cadmium oxide</td>
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<td>141</td>
<td>Ammonium pentadecafluoroctanoate (APFO)</td>
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<td>142</td>
<td>Pentadecafluorooctanoic acid (PFOA)</td>
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<td>143</td>
<td>Dipentyl phthalate (DPP)</td>
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<td>20.06.2013</td>
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<td>Substances group</td>
<td>CAS number</td>
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<td>144</td>
<td>4-Nonylphenol, branched and linear, ethoxylated*11</td>
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<td>145</td>
<td>Cadmium sulphide</td>
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<td>146</td>
<td>Disodium 3,3'-([1,1'-biphenyl]-4,4'-diylbis(azo))bis(4-aminophenylacetate) (C.I. Direct Red 28)</td>
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<td>147</td>
<td>Disodium 4-amino-3-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl][azo]-3-hydroxy-6-(phenylazo)phthalate, 2,7-disulphonate (C.I. Direct Black 38)</td>
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<td>148</td>
<td>Dihexyl phthalate</td>
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<td>Imidazolidine-2-thione (2-imidazoline-2-thiol)</td>
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<td>150</td>
<td>Lead di(acetate)</td>
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<td>151</td>
<td>Trityl phosphates</td>
<td>25155-23-1</td>
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<td>152</td>
<td>Cadmium chloride</td>
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<td>153</td>
<td>1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear</td>
<td>68515-50-4</td>
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<td>Sodium peroxybromide</td>
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<td>155</td>
<td>Sodium perborate; perboric acid, sodium salt*1</td>
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<td>156</td>
<td>Cadmium fluoride</td>
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<td>157</td>
<td>Cadmium sulphate</td>
<td>10124-36-4</td>
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<td>158</td>
<td>2-benzotriazol-2-yl-4,6-di-tert-butyl phenol (UV-320)</td>
<td>3846-71-7</td>
<td>17.12.2014</td>
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<td>159</td>
<td>2-(2H-benzotriazol-2-yl)-4,6-diterpentlylphenol (UV-328)</td>
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<td>160</td>
<td>2-ethylhexyl 10-ethyl-4,4-dicloxy-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)</td>
<td>15571-58-1</td>
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<td>161</td>
<td>Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dicloxy-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[2-[(2-ethylhexyl)oxy]-2-oxoethyl][thio]-4-oxctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) *12</td>
<td>JAMP-SN0084*2</td>
<td>17.12.2014</td>
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<td>162</td>
<td>1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters<em>13; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters</em>13</td>
<td>68515-51-5</td>
<td>15.06.2015</td>
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<td>163</td>
<td>5-sec-butyl-2-(2,4-dimethylocyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylocyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]*14</td>
<td>JAMP-SN0085*2</td>
<td>15.06.2015</td>
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<td>164</td>
<td>1,3-propanesultone</td>
<td>1120-71-4</td>
<td>17.12.2015</td>
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<td>165</td>
<td>2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)</td>
<td>3864-99-1</td>
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<td>166</td>
<td>2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)</td>
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<td>167</td>
<td>Nitrobenzene</td>
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<td>168</td>
<td>Perfluorononan-1-oic acid and its sodium and ammonium salts</td>
<td>375-95-1</td>
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<td>170</td>
<td>4,4'-isopropylidenediphenol (Bisphenol A; BPA)</td>
<td>80-05-7</td>
<td>12.01.2017</td>
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<td>171</td>
<td>Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts</td>
<td>335-76-2</td>
<td>12.01.2017</td>
</tr>
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<td>172</td>
<td>p-(1,1-dimethylpropyl)phenol</td>
<td>80-46-6</td>
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<tr>
<td>173</td>
<td>4-heptylphenol, branched and linear</td>
<td>JAMP-SN0089*2</td>
<td>12.01.2017</td>
</tr>
</tbody>
</table>

*1: The substance classified into this substances group also includes substances other than the CAS number listed in this table. (Please refer to ECHA website.)
*2: It means substances being assigned JAMP-SN (Substance Number). The CAS number of example substances are shown below.

JAMP-SN0081 : CAS No. 2315-61-9, 2315-67-5, 2497-59-8, 9002-93-1
JAMP-SN0085 : CAS No. 117933-89-8, 186309-28-4, 343934-04-3, 343934-05-4, 676367-02-5, 676367-03-6, 676367-04-7, 676367-05-8, 676367-06-9, 676367-07-0, 676367-08-1, 676367-09-2

Standards on the Management of Certain Chemical Substances Version 10.4
Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions:

a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges

b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).

c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight

Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions:

a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges

b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)

c) alkaline oxide and alkal earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight

* with ≥ 0.1% of Michler’s ketone (CAS No.90-94-8) or Michler’s base (CAS No.101-61-1)

* The individual cis-[2] and trans-[3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry.

* The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry.

* substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof

* covering well-defined substances and UVCB substances, polymers and homologues

* with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008.

* substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering well-defined substances and UVCB substances, polymers and homologues, which include any of the individual isomers or a combination thereof

<Please see also references>

* Candidate List of SVHC of ECHA website: http://echa.europa.eu/candidate-list-table

### Appendix 4. Example substance list

<table>
<thead>
<tr>
<th>No</th>
<th>Chemical substance group</th>
<th>Chemical name</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
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<td>1</td>
<td>Lead and its compounds</td>
<td>Lead</td>
<td>7439-92-1</td>
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<tr>
<td></td>
<td>Lead hydrogen arsenate</td>
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<td>Lead(II) carbonate</td>
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<td>Lead(IV) oxide</td>
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<td>Lead(II,IV) oxide</td>
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<td>Lead(II) sulfide</td>
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<td>Lead(II) oxide</td>
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<td>Lead(II) carbonate basic</td>
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<td>Lead hydroxidcarbonate</td>
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<td>Lead(II) sulfate</td>
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<td>Lead(II) phosphate</td>
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<td>Lead(II) titanate</td>
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<td>Lead sulfate, sulphuric acid, lead salt</td>
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<td>Lead di(acetate)</td>
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<td>Acetic acid, lead(2+) salt, trihydrate</td>
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<td>lead selenide</td>
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<td>Lead distearate</td>
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<td>Lead chromate molybdate sulphate red (C.I. Pigment Red 104)</td>
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<tr>
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<td>Chemical name</td>
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<td>Lead diazide, Lead azide</td>
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<td>Lead(II) bis(methanesulfonate)</td>
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<td>Lead bis(tetrafluoroborate)</td>
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<td>Specific organic tin compounds (TBTO, Tri-substituted organostannic compounds)</td>
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<td>Specific organic tin compounds (TBTO, Tri-substituted organostannic)</td>
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<td>Mixture of tributyltin 1,2,3,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthiencarboxylate and its analogs(Tributyltin rosin salt)</td>
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<td>Tributyltin _beta._iodopropionate</td>
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<td>Benzoic acid, p-iodo-, tributylstannyl ester</td>
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<td>Stannane, tributyl(2-</td>
<td>{(2,4,5-trichlorophenoxy)-2-propionyloxy)-1,3,5-Tris(tributylstannyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione</td>
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<td>Triphenyltin hydride</td>
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<td>Specific organic tin compounds (TBTO, Tri-substituted organostannic compounds)</td>
<td>Tri-n-propyltin acetate</td>
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<td>Dibutyltin (DBT) compounds</td>
<td>Dibutyltin maleate</td>
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<td>Dibutyltin diarauryl mercaptide</td>
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<td>Ethyl (Z,Z)-9,9-dibutyl-4,7,11-trioxo-3,8,10-trioxo-9-stannatetradeca-5,12-dien-14-oate</td>
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<td>Methyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-2,7,9-trioxo-8-stannatriaconta-4,11-dien-13-oate</td>
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<td>2-ethylhexyl 6,6-dibutyl-14-ethyl-4,8,11-trioxo-5,7,12-trioxo-6-stannaoctadeca-2,9-dienoate</td>
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<td>Butyl (Z,Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxo-6-stannahexadeca-2,9-dienoate</td>
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<td>Tin, dibutyl(1,2-ethanediameine-kappa.N1,kappa.N2)bis(1-isooctyl-2-butenedioato-kappa.O4)</td>
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<td>Bis(acetato)dibutyltin</td>
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<td>Dibutylbis[1-oxohexyloxy]stannane</td>
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<td>Isopropyl (Z,Z)-9,9-dibutyl-2-methyl-4,7,11-trioxo-3,8,10-trioxo-9-stannatetradeca-5,12-dien-14-oate</td>
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<td>Dibutylbis(pentane-2,4-dionato-O,O')tin</td>
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<td>Tin, dibutylbis(isooctylmercaptoacetate</td>
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<td>Diisooctyl 3,3''-[dibutylstannylene]bis[thio]-dipropionate</td>
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<td>Octyl 4,4-dibutyl-7-oxo-8-oxa-3,5-dithia-4-stannahexadecanoate</td>
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<td>Dibutyltin bis(2-ethylhexanoate)</td>
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<td>(Z)-octadec-9-ent (all-Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxo-6-stannatriaconta-2,9,21-trienoate</td>
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<td>Dodecyl (Z,Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxo-6-stannatetraacosa-2,9-dienoate</td>
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<td>2-ethylhexyl 5,5-dibutyl-12-ethyl-9-oxo-10-oxa-4,6-dithia-5-stannahexadecanoate</td>
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<td>Bis[benzoyloxy]dibutylstannane</td>
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<td>Dibutylbis(stearooyloxy)stannane</td>
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<td>Disobutyltin oxide</td>
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<td>Dibutylbis(triethylamine)difluorotin</td>
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<td>Dibutyl[N-(carboxymethyl)-N-(2-hydroxyethyl)glycinato(2-)tin</td>
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<td>Stannane, dibutyldichloro- [SVHC]</td>
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<td>Benzyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-1-phenyl-2,7,9-trioxo-8-stannatriaconta-4,11-dien-13-oate</td>
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<td>Dibutyltin (DBT) compounds</td>
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<td>2,2-dibutyl-1,3,2-oxathiapennlan-5-one</td>
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<td>Stannane, dibutylstannoo-</td>
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<td>Dibutylbis[(1-oxoisooctyl)oxy]stannane</td>
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<td>2-Butenoic acid, 4,4''-[(dibutylstannylene)bis(oxo)]bis[4-oxo-, diisooctyl ester, (2Z,2''Z)-]</td>
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<td>8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 4,4-dibutyl-10-ethyl-7-oxo-, 2-ethylhexyl ester</td>
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<td>Butanoic acid,1,1'-(dibutylstannylene) ester</td>
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<td>Dimethyl fumarate (DMF)</td>
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<td>Short chain chlorinated paraffins (C10-C13)</td>
<td>Short-chain Chlorinated paraffin (C10-C13)</td>
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<td>Chlorinated Paraffins (C12, 60% Chlorine)</td>
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<td>Paraffin waxes and Hydrocarbon waxes, chloro</td>
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<td>Chlorinated paraffin (C12-13)</td>
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<td>Alkanes, chloro (C10-13)</td>
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<td>Polychlorinated naphthalenes (more than 1 chlorine atoms)</td>
<td>Polychlorinated Naphthalenes</td>
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<td>Perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>1-Octanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</td>
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<td>2-Propanoic acid, 2-methyl-, 2-ethyl[(heptadecafluoroocyl)sulfonyl]amino]ethyl ester</td>
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<td>2-Propanoic acid, 2-[butyl][(heptadecafluoroctyl)sulfonyl]amino]ethyl ester</td>
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<td>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-</td>
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<td>Glycine, N-ethyl-N-[(heptadecafluoroctyl)sulfonyl]-, ethyl ester</td>
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<td>15</td>
<td>Perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>1-Octanesulfonamide, N,N,N&quot;-[phosphinylidyinetris(oxy-2,1-ethanediyl)]tris[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-]</td>
<td>2250-98-8</td>
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<td>1-Octanesulfonamide, N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-</td>
<td>2263-09-4</td>
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<td>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt</td>
<td>2795-39-3</td>
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<td>Glycine, N-ethyl-N-[(heptadecafluoroctyl)sulfonyl]-</td>
<td>2991-50-6</td>
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<td>Glycine, N-ethyl-N-[(heptadecafluoroctyl)sulfonyl]-, potassium salt</td>
<td>2991-51-7</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-phosphonooxy)ethyl-</td>
<td>3820-83-5</td>
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<tr>
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<td>Glycine, N-ethyl-N-[(heptadecafluoroctyl)sulfonyl]-, sodium salt</td>
<td>3871-50-9</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</td>
<td>4151-50-2</td>
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<td>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt</td>
<td>13417-01-1</td>
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<td>2-Propenoic acid, 2-methyl-, 2-[(heptadecafluoroctyl)sulfonyl]methylamino]ethyl ester</td>
<td>14650-24-9</td>
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<td>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N(2-hydroxyethyl)-N-methyl-</td>
<td>24448-09-7</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-</td>
<td>24924-36-5</td>
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<td>2-Propenoic acid, 2-[(heptadecafluoroctyl)sulfonyl]methylamino]ethyl ester</td>
<td>25268-77-3</td>
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<td>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt</td>
<td>29081-56-9</td>
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<td>Poly(oxy-1,2-ethanediyl), alpha-[-2-[(ethyl)[(heptadecafluoroctyl)sulfonyl]amino]ethyl]-omega-.-hydroxy-</td>
<td>29117-08-6</td>
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<td>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt</td>
<td>29457-72-5</td>
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<td>1-Octanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-</td>
<td>30295-51-3</td>
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<td>1-Octanesulfonamide, N,N'-(phosphinylidyinetris(oxy-2,1-ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-], ammonium salt</td>
<td>30381-98-7</td>
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<td>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-</td>
<td>31506-32-8</td>
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<td>1-Propanaminium, 3-[[[(heptadecafluoroctyl)sulfonyl]amino]N,N,N-trimethyl]-chloride</td>
<td>38006-74-5</td>
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<td>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(phenylmethyl)-</td>
<td>50598-29-3</td>
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<td>Poly(oxy-1,2-ethanediyl), alpha-[-2-[(heptadecafluoroctyl)sulfonyl]propylamino]ethyl]-omega-.-hydroxy-Ethanaminium, N,N,N-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1)</td>
<td>52550-45-5</td>
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<td>Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(heptadecafluoroctyl)sulfonyl]oxy]phenyl]amino]carbonyl]-, monopotassium salt</td>
<td>56773-42-3</td>
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<td>2-Propenoic acid, 2-[[[(heptadecafluoroctyl)sulfonyl]methylamino]butyl ester</td>
<td>57589-85-2</td>
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<td>2-Propenoic acid, 4-[[[(heptadecafluoroctyl)sulfonyl]methylamino]butyl ester</td>
<td>58920-31-3</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-3-(trimethoxysilyl)propyl-</td>
<td>61577-14-8</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-3-(trichlorosilyl)propyl-</td>
<td>66660-12-6</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-(phosphonooxy)ethyl]-, diammonium salt</td>
<td>67939-42-8</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-</td>
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<td>15</td>
<td>Perfluoroctane sulfonic acid and its salts (PFOS)</td>
<td>1-Octanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, monohydrochloride</td>
<td>67939-88-2</td>
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<td>Carbamic acid, (4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[[perfluoro-C4-8-alkyl]sulfonyl]amino]ethyl] ester</td>
<td>68081-83-4</td>
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<td>1-Propanaminium, 3-[[[heptadecafluoroctyl]sulfonyl][3-sulfopropyl]amino]-N-(2-hydroxyethyl)-N,N-dimethyl-, inner salt</td>
<td>68298-11-3</td>
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<td>1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(4-hydroxybutyl)-N-methyl-</td>
<td>68239-73-6</td>
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<td>1-Propanaminium, 3-[[[heptadecafluoroctyl]sulfonyl]amino]-N,N,N-trimethyl-, iodide, ammonium salt</td>
<td>68310-75-8</td>
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<td>2-Propanonic acid, polymer with 2-[ethyl[[heptadecafluoroctyl]sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadeeyl 2-propenoate</td>
<td>68541-80-0</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]</td>
<td>68608-14-0</td>
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<td>1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonfluoroo-N-(2-hydroxyethyl)-1-butanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylene-polypolynylene isocyanate and stearyl alc.</td>
<td>68649-20-3</td>
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<td>15</td>
<td>Perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>68877-32-7</td>
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<td>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with 2,2'-iminobis<a href="">ethanol</a></td>
<td>70225-14-8</td>
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<td>Phosphonic acid, [3-[[ethyl[[heptadecafluorooctyl]sulfonyl]amino]propyl]-</td>
<td>71463-78-0</td>
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<td>Phosphonic acid, [3-[[ethyl[[heptadecafluorooctyl]sulfonyl]amino]propyl]-, diethyl ester</td>
<td>71463-80-4</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)</td>
<td>91081-99-1</td>
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<td>1-Propanesulfonic acid, 3-[[3-[[dimethylamino]propyl][heptadecafluorooctyl]sulfonyl]amino]2-hydroxy-, monosodium salt</td>
<td>94133-90-1</td>
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<td>2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[[methyl[[perfluoro-C4-8-alkyl]sulfonyl]amino]ethyl methacrylate</td>
<td>127133-66-8</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol</td>
<td>148684-79-1</td>
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<td>15</td>
<td>Perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyethylene isocyanate</td>
<td>160901-25-7</td>
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<td>1-Octanesulfonamide, N-[3-(dimethyloxoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt</td>
<td>178094-69-4</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyethylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked</td>
<td>178535-22-3</td>
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<td>1-Octanesulfonamide,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-, reaction products with benzene-chlorine-sulfur chloride (S2Cl2) reaction products chlorides</td>
<td>182700-90-9</td>
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<td>2-Propenoic acid, 2-methyl- butyl ester, polymer with 2-[(ethyl[(heptadecafluoroocctyl)sulfon yl]amino)ethyl] 2-methyl-2-propenoate, 2-[(ethyl[(nonafluorobutyl)sulfon yl]amino)ethyl] 2-methyl-2-propenoate, 2-[(ethyl[(pentadecafluoroheptyl)sulfon yl]amino)ethyl] 2-methyl-2-propenoate, 2-[(ethyl[(tridecafluorohexyl)sulfon yl]amino)ethyl] 2-methyl-2-propenoate and 2-propenoic acid</td>
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<td>Polymethylenepolyethylene isocyanate and bis(4-NCO-phenyl)methane reaction products with 2-ethyl-1-hexanol, 2- butanone, oxime, N-ethyl-N-(2- hydroxyethyl)-1-C4-C8 perfluoroalkanesulfonamide</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl], reaction products with acrylic acid</td>
<td>192662-29-6</td>
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<td>1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1)</td>
<td>251099-16-8</td>
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<td>Fatty acids, linseed-oil, dimers, 2-[[{(heptadecafluoroocctyl)sulfon yl]methylamino}ethyl] esters</td>
<td>306973-46-6</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxyoctadecanoic acid and 2,4-TDI, ammonium salts</td>
<td>306973-47-7</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)ethyl]</td>
<td>306974-19-6</td>
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<td>Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl group]-terminated, polymers with 2-[[methyl[(perfluoro-C4-8-alkyl)sulfon yl]amino]ethyl] acrylate and stearyl methacrylate</td>
<td>306974-28-7</td>
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<td>Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-amino(propyl) ether</td>
<td>306974-45-8</td>
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<td>Fatty acids, C18-unsatd., dimers, 2-[[methyl[(perfluoro-C4-8-alkyl)sulfon yl]amino]ethyl] esters</td>
<td>306974-63-0</td>
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<td>Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with triethylamine</td>
<td>306975-56-4</td>
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<td>Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] and 1,2,3-propanetriol, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with trimethylamine</td>
<td>306975-57-5</td>
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<td>2-Propanoic acid, 2-methyl-, dodecyl ester, polymers with 2-[[methyl[(perfluoro-C4-8-alkyl)sulfon yl]amino]ethyl] acrylate and vinylidene chloride</td>
<td>306975-62-2</td>
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<td>Poly[(oxy-1,2-ethanediyl), alpha.-hydro-.omega.-hydroxy-, polymer with 1,6-disiocyanatohexane, N-(hydroxyethyl)-N-methyl(perfluoro-C4-8-alkanesulfonamides-blocked</td>
<td>306975-84-8</td>
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<td>2-Propanoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamide, 2-[[methyl[(perfluoro-C4-8-alkyl)sulfon yl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride</td>
<td>306975-85-9</td>
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<td>15</td>
<td>Perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>1-Hexadecanaminium, N,N-dimethyl-N-[2-[[2-methyl-1-oxo-propenyl]oxy]ethyl]-, bromide, polymers with Bu acrylate, Bu methacrylate and 2-[(perfluoro-C4-8-alkyl)sulfonfyl]amino]ethyl acrylate</td>
<td>306976-25-0</td>
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<td>2-Propanoic acid, 2-methyl-, 2-methyl-propyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propanoic acid, N-ethyl-N-(hydroxyethyl)(perfluoro-C4-8-alkanesulfonamides-blocked)</td>
<td>306976-55-6</td>
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<td>2-Propanoic acid, 2-methyl-, 3-[(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[(perfluoro-C4-8-alkyl)sulfonfyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolyzed, compds. with 2,2'-[(dimethylino)bis[ethanol]]</td>
<td>306977-58-2</td>
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<td>2-Propanoic acid, butyl ester, polymers with acrylamide, 2-[(perfluoro-C4-8-alkyl)sulfonfyl]amino]ethyl acrylate and vinylidene chloride</td>
<td>306978-04-1</td>
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<td>Hexane, 1,6-disiocyanato-, homopolymer, N-(hydroxyethyl)-N-methyl(perfluoro-C4-8-alkanesulfonamides- and stearyl alc.-blocked</td>
<td>306978-65-4</td>
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<td>Poly(oxy-1,2-ethanediyl), alpha-[[2-[(methylamino)ethyl]-ω-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[[(perfluoro-C4-8-alkyl)sulfonfyl]derivs.</td>
<td>306979-40-8</td>
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<td>Sulfonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediylbis[(2-oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-</td>
<td>306980-27-8</td>
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<td>Other perfluorooctane sulfonic acid and its salts (PFOS)</td>
<td>JAMP-SN0035</td>
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<td>16</td>
<td>Perfluorooctanoic acid (PFOA) and its salts and esters</td>
<td>Pentadecafluorooctanoic acid (PFOA)</td>
<td>335-67-1</td>
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<td>Ammonium pentadecafluorooctanoate (APFO)</td>
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<td>Polycyclic Aromatic Hydrocarbons (PAHs)</td>
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<td>Tricosfluorodecanoic acid</td>
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<td>Halogenated organic compounds and Halogenated polymers</td>
<td>Sodium salts of perfluorononan-1-oic-acid</td>
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<td>Ammonium salts of perfluorononan-1-oic-acid</td>
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<td>Other halogenated organic compounds and halogenated polymers</td>
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<td>Halogenated Flame Retardants</td>
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<td>TBBA-TBBA-diglycidyl-ether oligomer</td>
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<td>TBBA carbonate oligomer</td>
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<td>TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated</td>
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<td>TBBA-dimethyl-ether</td>
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<td>Halogenated polymers (excluding fluorinated plastic.)</td>
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<td>Poly(vinyl chloride)</td>
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<td>Polychlorotrifluoroethylene (PCTFE)</td>
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<td>Dicaptyl phthalate (DNOP)</td>
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<td>Azo compounds forming specific amine</td>
<td>For specific amines, please see Appendix 1 &quot;List of specific amines&quot;.</td>
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<td>Nickel and its compounds</td>
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<td>Nickel(II) Sulfate</td>
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<td>Nickel bis(sulphamidate)</td>
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<td>Organotin compounds (excluding specific organotin compounds and dibutyltin (DBT) )</td>
<td>Tin, dichloro[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,(OC-6-12)-</td>
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<td>Diocytin(DOT) compounds</td>
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<td>Perchlorates</td>
<td>Ammonium Perchlorate</td>
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<td>Potassium Perchlorate</td>
<td>7778-74-7</td>
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<td>Lithium perchlorate trihydrate</td>
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<td>Other Perchlorates</td>
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