Product Restricted Substances List (PRSL) and Product Safety Requirements

Product Compliance Advisory Department
Rev. 9 – November 2023
SCOPE

Compliance with the standards contained in the present document is mandatory for all Kering products, including packaging materials.

INTRODUCTION

Kering Group committed to operating in a compliant manner in order to protect its customers, workers, Brands and the environment. The “Kering Product Restricted Substances List and Product Safety Requirements” is a necessary part of this commitment. Moreover, the present document is intended to help users to understand and comply with the strictest worldwide legislation about health, product safety and the environment.

A primary aim of Kering is to ensure that only safe and compliant products are offered to the customer.

Kering restrictions are generally based on existing compulsory global regulations, but in certain cases it has been decided to impose stricter limitations on raw materials and finished products in case of the evidence that they may present safety risks for final customers and the environment, although specific act has not yet been released.
NOTE

1. This document does not cover specific safety requirements for items other than those of the “fashion system” (Ready to Wear, Soft Accessories, Footwear, Leather goods, Jewellery, Eyewear and their Packaging); for example toys, baby care products, food contact products, electrical and electronic products, cosmetic products, etc. are excluded.

2. EC Regulation no. 1907/2006 (REACH):
   - All materials must be provided according to EC Regulation and all its amendments in force at the time of delivery of the items (http://echa.europa.eu/en/home).
   - All materials must comply with REACH requirements regarding SVHC (“Candidate List” http://echa.europa.eu/en/candidate-list-table) at the time of delivery of the items. In case of presence of any SVHC (more than 0.1% w/w or 1000 ppm), the supplier must inform us immediately.

3. Children’s Products must meet, in addition to any other requirement reported in this document, also non-federal regulations in the US: suppliers must comply with the non-intentional use of several hazardous chemicals. If the use cannot be avoided, suppliers must inform us immediately. The list of these chemicals is reported in Section 1.10.

4. All test methods referred to regulations must be performed in accordance to the release in force at the time of delivery of the items.

5. PVC (polyvinyl chloride) is banned in all materials and finished products, in accordance with Kering Standards.

6. PFAS (per- and polyfluoroalkyl substances) are banned in all chemical products used to process/manufacture Kering raw materials and finished products in accordance with Kering MRSL V.2.0

7. For additional information about Kering Standards please refer to: https://keringcorporate.dam.kering.com/m/5eeab5246f5ae85c/original/Kering-Standards-V5.pdf.

CONTACTS

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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lorenzo Begliomini</td>
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</tr>
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</tr>
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</tr>
</tbody>
</table>
### MAIN UPDATE

The “Kering Product Restricted Substances List and Product Safety Requirements” will be updated by Product Compliance Advisory Department annually or whenever required, as worldwide Legislations and Regulations are constantly evolving, reserving the right to alter the update at any time outside of the schedule.

<table>
<thead>
<tr>
<th>Revision ref.</th>
<th>News added or updated</th>
<th>Material/Product involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rev.09</td>
<td>PFAS: all PFAS as total organic fluorine (TOF)</td>
<td>All materials</td>
</tr>
<tr>
<td></td>
<td>PFAS: Perfluorohexanesulfonic acid (PFHxS) and its salts</td>
<td>Textile, Leather and Fur</td>
</tr>
<tr>
<td></td>
<td>PFAS: PFHxS-related substances</td>
<td>Textile, Leather and Fur</td>
</tr>
<tr>
<td></td>
<td>Cadmium: Heavy Metals (total amount)</td>
<td>Textile, Leather and Fur, Plastic, Glass and Crystal, Wood and similar</td>
</tr>
<tr>
<td></td>
<td>Lead: Heavy Metals (total amount)</td>
<td>Textile, Leather and Fur, Plastic, Glass and Crystal, Wood and similar</td>
</tr>
<tr>
<td></td>
<td>Glutaraldehyde</td>
<td>Leather and Fur</td>
</tr>
<tr>
<td></td>
<td>Bisphenols</td>
<td>Paper and similar</td>
</tr>
<tr>
<td></td>
<td>Azo Dyes: aryl amines can be split off under reductive conditions</td>
<td>Paper and similar</td>
</tr>
<tr>
<td></td>
<td>Phthalates</td>
<td>Paper and similar, Metal</td>
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# 1. KERING PRODUCT RESTRICTED SUBSTANCES LIST (PRSL)

## 1.1 Textile

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid boric</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>Screening Test: acid digestion ICP-MS Specific Test: aqueous extraction - TEA derivatization - GC-MS</td>
</tr>
<tr>
<td>Asbestos (Appendix 2)</td>
<td>mg/kg</td>
<td>≤ 0.5 (sum) Penthachlorophenol (PCP) Tetrachlorophenols (TeCP) excluded</td>
<td>Microscopic examination</td>
</tr>
<tr>
<td>Bicides (Appendix 3)</td>
<td>mg/kg</td>
<td>≤ 1 (sum) Penthachlorophenol (PCP) Tetrachlorophenols (TeCP) excluded</td>
<td>Chromatographic Test Methods refer to US EPA 8081</td>
</tr>
<tr>
<td>Bisphenols (Appendix 25)</td>
<td>mg/kg</td>
<td>≤ 1 (polyester/elastane materials only)</td>
<td>Solvent extraction, LC-MS / GC-MS analysis</td>
</tr>
<tr>
<td>Chlorobenzenes and Chlorotoluenes (Appendix 5)</td>
<td>mg/kg</td>
<td>≤ 1 (sum) Hexachlorobenzene ≤ 0.5 (sum as Bicicdes)</td>
<td>EN 17137</td>
</tr>
<tr>
<td>Chloroparaffines: Short chained (SCCPs : C10-C40)</td>
<td>mg/kg</td>
<td>≤ 0 (sum)</td>
<td>ISO 22818</td>
</tr>
<tr>
<td>Chloroparaffines: Medium chained (MCCPs : C10-C40)</td>
<td>mg/kg</td>
<td>≤ 1000 (sum)</td>
<td></td>
</tr>
<tr>
<td><strong>Colour Fastness to</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry rubbing</td>
<td>gray scale</td>
<td>≥ 4</td>
<td>≥ 3</td>
</tr>
<tr>
<td>Perspiration (acid and alkaline)</td>
<td>gray scale</td>
<td>≥ 3/4</td>
<td>≥ 3</td>
</tr>
<tr>
<td>Saliva</td>
<td>gray scale</td>
<td>≥ 4</td>
<td>N.A.</td>
</tr>
<tr>
<td>Water</td>
<td>gray scale</td>
<td>≥ 3/4</td>
<td>≥ 3</td>
</tr>
<tr>
<td>Wet rubbing</td>
<td>gray scale</td>
<td>≥ 3</td>
<td>≥ 2/3 (only dark colour)</td>
</tr>
<tr>
<td>Dimethyl fumarate (DMFu)</td>
<td>mg/kg</td>
<td>≤ 0.1</td>
<td>ISO 16186 - GB/T 26713</td>
</tr>
<tr>
<td><strong>Dyes</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allergenic Disperse (Appendix 1)</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>DIN 54231 - Analysis TLC and LC-MS ISO 16373-3</td>
</tr>
<tr>
<td>Azo: aryl amines can be split off under reductive conditions (Appendix 9)</td>
<td>mg/kg</td>
<td>≤ 20</td>
<td>UNI EN ISO 14362-1.3 GB/T 17592.1 GB/T 23344</td>
</tr>
<tr>
<td>Carcinogenic (Appendix 4)</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>Based on DIN 54231</td>
</tr>
<tr>
<td>Navy Blue (Appendix 12)</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>GB/T 24279; ISO 17881-1-2 Extraction with organic solvent - Analysis by GC-MS; GC-ECD; LC-MS; KS 82321</td>
</tr>
<tr>
<td>Flame Retardants (Appendix 8)</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>EN ISO 14184-1; GB 18401: GB/T 2912.1 KS K 0611</td>
</tr>
<tr>
<td>Formaldehyde (free and extractable)</td>
<td>mg/kg</td>
<td>≤ 16</td>
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<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th><strong>Babies</strong> (≤ 36 months)</th>
<th><strong>Children</strong> (3-14 years) &amp; <strong>Adults</strong> (&gt;14 years)</th>
<th><strong>Test method reference</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Metals (total amount)</td>
<td>mg/kg</td>
<td>≤ 40</td>
<td>≤ 40 (&lt; 14 years)</td>
<td>EN 16711-1</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 40 (jewelry only)</td>
<td>≤ 40 (jewelry only ≤ 14 years)</td>
<td>EN 16711-1</td>
</tr>
<tr>
<td>Mercury compounds (Appendix 11)</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td>≤ 90</td>
<td>Screening Test method: ISO 17072-2 EN 16711-1</td>
</tr>
<tr>
<td>Alkylphenolethoxylates (APEOs) (Appendix 14)</td>
<td>mg/kg</td>
<td>&lt; 100 (sum)</td>
<td>&lt;250 (non-washable recycled materials only)</td>
<td>ISO 18254 -1</td>
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<tr>
<td>Alkylphenols (APs) (Appendix 15)</td>
<td>mg/kg</td>
<td>≤ 10 (sum)</td>
<td>Extraction with organic solvent - Analysis by GC-MS ISO 21084</td>
<td></td>
</tr>
<tr>
<td>Odorous</td>
<td>None</td>
<td></td>
<td>GB 18401 part 6.7</td>
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<tr>
<td>Organotin compounds (Appendix 16)</td>
<td>mg/kg</td>
<td>≤ 0,5 (TBT, TBTO, TPhT)</td>
<td>≤ 1 (TBT, TBTO, TPhT)</td>
<td>ISO/TS 16179 KS K 0737</td>
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<tr>
<td>Ortho-phenilphenol (OPP)</td>
<td>mg/kg</td>
<td>≤ 50</td>
<td>≤ 100</td>
<td>UNI 11057 US EPA 8081 A</td>
</tr>
<tr>
<td>Pentachlorophenol (PCP)</td>
<td>mg/kg</td>
<td>≤ 0,05 (sum)</td>
<td>≤ 0,05 (sum) (&lt; 14 years)</td>
<td></td>
</tr>
<tr>
<td>Tetrachlorophenols (TcCP)</td>
<td>mg/kg</td>
<td></td>
<td>≤ 0,05 (sum)</td>
<td></td>
</tr>
<tr>
<td>Trichlorophenols (TCP) (Appendix 6)</td>
<td>mg/kg</td>
<td></td>
<td>Extraction with organic solvent - GC-MS</td>
<td></td>
</tr>
<tr>
<td>PFAS: all PFAS as total organic fluorine (TOF)</td>
<td>mg/kg</td>
<td></td>
<td>EN 17813</td>
<td></td>
</tr>
<tr>
<td>PFAS: Perfluoroctanesulfonic acids and its derivates (PFOS) (Appendix 17)</td>
<td>µg/m²</td>
<td>≤ 1</td>
<td>CEN/TS 15968</td>
<td></td>
</tr>
<tr>
<td>PFAS: Perfluorooctanoic Acid (PFOA) and its salts (Appendix 17)</td>
<td>µg/kg</td>
<td>≤ 25</td>
<td>Extraction with organic solvent - Analysis by LC-MSMS referred to CEN/TS 15968</td>
<td></td>
</tr>
<tr>
<td>PFAS: PFOA-related substances (Appendix 17)</td>
<td>µg/kg</td>
<td>≤ 1000 (sum)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFAS: long chain perfluoralkyl acids (C9-C14)</td>
<td>µg/kg</td>
<td>≤ 25</td>
<td>Extraction with organic solvent - Analysis by LC-MSMS referred to CEN/TS 15968</td>
<td></td>
</tr>
<tr>
<td>PFAS: long chain perfluoralkyl related substances (C9-C14) (Appendix 17)</td>
<td>µg/kg</td>
<td>≤ 260 (sum)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFAS: short chain perfluoralkyl substances (Appendix 17)</td>
<td>mg/kg</td>
<td>≤ 1000 (sum)</td>
<td>CEN/TS 15968</td>
<td></td>
</tr>
<tr>
<td>PFAS: Perfluorohexanesulfonic acid (PFHxS) and its salts (Appendix 17)</td>
<td>µg/kg</td>
<td>≤ 25</td>
<td>EN ISO 23702-1 or EN 17681-1 &amp; EN 17681-2</td>
<td></td>
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<tr>
<td>PFAS: PFHxS-related substances (Appendix 17)</td>
<td>µg/kg</td>
<td>≤ 1000 (sum)</td>
<td>CEN/TS 15968</td>
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</table>

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### Parameters & Requirements

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value of aqueous extract</td>
<td>pH</td>
<td>4,0 – 7,5</td>
</tr>
<tr>
<td>Polychlorobiphenyls (PCB) (Appendix 19)</td>
<td>mg/kg</td>
<td>≤ 0,1</td>
</tr>
<tr>
<td>Polychloronaphthalenes (PCN) (Appendix 20)</td>
<td>mg/kg</td>
<td>≤ 1</td>
</tr>
<tr>
<td>Polycyclic Aromatic Hydrocarbons (IPA - PAH) (Appendix 21)</td>
<td>mg/kg</td>
<td>&lt; 0,5 (synthetic fibers only)</td>
</tr>
<tr>
<td>Quinoline (CAS 91-22-5)</td>
<td>mg/kg</td>
<td>&lt; 50</td>
</tr>
<tr>
<td>Siloxanes (Appendix 22)</td>
<td>mg/kg</td>
<td>≤ 1000</td>
</tr>
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</table>

### Test method reference

- EN ISO 3071
- GB 18401: GB/T 7573
- Ref. EPA 3540C + EPA 8082A
- Ref. EPA 3550C + EPA 8270E
- AIPS GS 2019:01
- ISO/TS 16190
- GC-MS extraction MeOH or THF and HPLC-MS
- Solvent extraction, GC-MS analysis

### Heavy Metals (extractable) & Requirements

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>mg/kg</td>
<td>≤ 30</td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 0,2</td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 0,1</td>
</tr>
<tr>
<td>Chromium (total)</td>
<td>mg/kg</td>
<td>≤ 1</td>
</tr>
<tr>
<td>Chromium VI</td>
<td>mg/kg</td>
<td>≤ 0,5</td>
</tr>
<tr>
<td>Cobalt</td>
<td>mg/kg</td>
<td>≤ 1</td>
</tr>
<tr>
<td>Copper</td>
<td>mg/kg</td>
<td>≤ 25</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 0,2</td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 0,02 (natural fibers only)</td>
</tr>
<tr>
<td>Nickel</td>
<td>mg/kg</td>
<td>≤ 1</td>
</tr>
</tbody>
</table>

### Test method reference

- Extractable Content: extraction with acid perspiration according to:
  - EN 16711:2
  - Cr (VI): GB/T 17593-3; ISO 17075
<table>
<thead>
<tr>
<th>Parameter (referring to coating material)</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenols (Appendix 25)</td>
<td>mg/kg</td>
<td>≤ 1</td>
<td>Solvent extraction, LC-MS / GC-MS analysis</td>
</tr>
<tr>
<td>Heavy Metals (total amount)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 40</td>
<td>EN 16711-1 CPSC-CH-E1003-09.1</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 40 (jewelry only)</td>
<td>Microwave digestion; ICP-MS/OES - CPSC-CH-E-1003-09.1 - GB/T 30157</td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 10</td>
<td>Microwave digestion ICP-MS/OES EN 14389 CPSC-CH-C1001-09.4 GB/T 20388 ISO 8124-6</td>
</tr>
<tr>
<td>Phthalates (Appendix 18)</td>
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<td></td>
</tr>
<tr>
<td>BBP, DBP, DEHP, DIBP, DPP, DMEP, DIHP, DHNP, DHP-DnHP</td>
<td>mg/kg</td>
<td>≤ 50</td>
<td>GB 19340:2003 &quot;Extraction HS - SPME or Purge &amp; Trap and Analysis by GC-MS&quot; ISO/TS 16189</td>
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<tr>
<td>DIDP, DNOP, DINP</td>
<td>mg/kg</td>
<td>&lt;1000 (sum)</td>
<td>ISO 24040 Solvent extraction, LC-MS analysis</td>
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<tr>
<td>All other esters of o-phthalic acid</td>
<td>mg/kg</td>
<td>≤ 500 (≤ 3 years) N.A.</td>
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</tr>
<tr>
<td>Solvents (Appendix 23)</td>
<td>mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>According to dedicated appendix</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>UV-Stabilizers (Appendix 24)</td>
<td>mg/kg</td>
<td>≤ 1000</td>
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**Additional Requirements for Painted and Coated Textile - Children Products (only for 0-3 years “Infants” and 3-13 years “Children”)**

<table>
<thead>
<tr>
<th>Parameter (Heavy Metals (extractable))</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>EN 71-3 ASTM F963 KS G ISO 8124-3 ISO 8124-3</td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 25</td>
<td>Extraction with Hydrochloric Acid 0.07M</td>
</tr>
<tr>
<td>Barium</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 75</td>
<td></td>
</tr>
<tr>
<td>Chromium (total)</td>
<td>mg/kg</td>
<td>≤ 60</td>
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</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td>mg/kg</td>
<td>≤ 500</td>
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### 1.2 Leather and Fur

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Children (≤ 14 years)</strong></td>
<td><strong>Adults (&gt; 14 years)</strong></td>
</tr>
<tr>
<td>Boric Acid</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>Screening Test: acid digestion - ICP-MS</td>
</tr>
<tr>
<td>Asbestos (Appendix 2)</td>
<td>mg/kg</td>
<td>Not detected</td>
<td>Microscopic examination</td>
</tr>
<tr>
<td>Biocides (Appendix 3)</td>
<td>mg/kg</td>
<td>≤ 0.5 (sum) (≤ 36 months)</td>
<td>Chromatographic Test Methods refer to US EPA 8081</td>
</tr>
<tr>
<td><strong>Bisphenols</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BPA</td>
<td>mg/kg</td>
<td>≤ 200</td>
<td>Solvent extraction, LC-MS / GC-MS analysis</td>
</tr>
<tr>
<td>BPF</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td>BPS</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td>Chloroparaffines: Short chained</td>
<td>mg/kg</td>
<td>≤ 50 (sum)</td>
<td>ISO 18219-1</td>
</tr>
<tr>
<td>(SCCPs : C_{10}-C_{13})</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Chloroparaffines: Medium chained</td>
<td>mg/kg</td>
<td>≤ 1000 (sum)</td>
<td>ISO 18219-2</td>
</tr>
<tr>
<td>(MCCPs : C_{14}-C_{17})</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chromium VI</td>
<td>mg/kg</td>
<td>&lt; 3</td>
<td>EN ISO 17075-2</td>
</tr>
<tr>
<td>Dimethyl furanate (DMFu)</td>
<td>mg/kg</td>
<td>≤ 0.1</td>
<td>ISO/TS 16186</td>
</tr>
<tr>
<td><strong>Dioxins and furans (Appendix 7)</strong></td>
<td>mg/kg</td>
<td>According to dedicated appendix</td>
<td>Extraction with organic solvent - Analysis by GC-MS</td>
</tr>
<tr>
<td>Dyes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allergic Disperse</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>DIN 54231</td>
</tr>
<tr>
<td>(Appendix 1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Azo: aryl amines can be split off</td>
<td>mg/kg</td>
<td>≤ 30</td>
<td>EN ISO 17234-1, GB 20400: GB/T 19942, JIS L 1940</td>
</tr>
<tr>
<td>under reductive conditions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Appendix 9)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenic</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>DIN 54231 - Analysis TLC and LC-MS</td>
</tr>
<tr>
<td>(Appendix 4)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Navy Blue</td>
<td>mg/kg</td>
<td>Not detectable (≤ 1 mg/kg)</td>
<td>Based on DIN 54231</td>
</tr>
<tr>
<td>(Appendix 12)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flame Retardants (Appendix 8)</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>Extraction with organic solvent - Analysis by: GC-MS; GC-ECD; LC-MS - GB/T 24279</td>
</tr>
<tr>
<td>Formaldehyde (free and extractable)</td>
<td>mg/kg</td>
<td>≤ 20 (≤ 36 months)</td>
<td>EN ISO 17226-1, GB 20400: GB/T 19941</td>
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<tr>
<td>Glutaraldehyde</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>Extraction with organic solvent + Analysis by GC-MS</td>
</tr>
<tr>
<td>Parameter</td>
<td>Unit</td>
<td>Requirements</td>
<td>Test method reference</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------------</td>
<td>-----------------------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Heavy Metals (extractable)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 0.1</td>
<td>EN ISO 17072-1</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 0.8</td>
<td>EN ISO 17072-1</td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 0.02</td>
<td>EN ISO 17072-1</td>
</tr>
<tr>
<td><strong>Heavy Metals (total amount)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 40</td>
<td>EN ISO 17072-2</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 40 (jewelry only)</td>
<td>EN ISO 17072-2</td>
</tr>
<tr>
<td><strong>Mercury compounds (Appendix 11)</strong></td>
<td>mg/kg</td>
<td>≤ 1 (mercury, Hg)</td>
<td>Screening Test method: ISO 17072-2</td>
</tr>
<tr>
<td><strong>Alkylphenolethoxylates (APEOs) (Appendix 14)</strong></td>
<td>mg/kg</td>
<td>&lt; 100 (sum)</td>
<td>Extraction with organic solvent - Analysis by LC-MS ISO 18218-1</td>
</tr>
<tr>
<td><strong>Alkylphenols (APs) (Appendix 15)</strong></td>
<td>mg/kg</td>
<td>≤ 100 (sum)</td>
<td>Extraction with organic solvent - Analysis by GC-MS refer to ISO 21084</td>
</tr>
<tr>
<td><strong>Organotin compounds (Appendix 16)</strong></td>
<td>mg/kg</td>
<td>≤ 0.5 (TBT, TBTO, TPhT)</td>
<td></td>
</tr>
<tr>
<td><strong>Ortho-phenylenol (OPP)</strong></td>
<td>mg/kg</td>
<td>≤ 1 (others)</td>
<td></td>
</tr>
<tr>
<td><strong>Pentachlorophenol (PCP)</strong></td>
<td>mg/kg</td>
<td>≤ 0.5 (sum)</td>
<td></td>
</tr>
<tr>
<td><strong>Tetrachlorophenols (TeCP)</strong></td>
<td>mg/kg</td>
<td>≤ 0.5 (sum)</td>
<td></td>
</tr>
<tr>
<td><strong>Trichlorophenols (TCP)</strong></td>
<td>mg/kg</td>
<td>≤ 0.5 (sum)</td>
<td></td>
</tr>
<tr>
<td><strong>PFAS: all PFAS as total organic fluorine (TOF)</strong></td>
<td>mg/kg</td>
<td>≤ 100</td>
<td></td>
</tr>
<tr>
<td><strong>PFAS: Perfluorooctanesulfonic acids and its derivates (PFOS)</strong> (Appendix 17)</td>
<td>µg/m²</td>
<td>≤ 1</td>
<td>ISO 23702-1</td>
</tr>
<tr>
<td><strong>PFAS: Perfluorooctanoic Acid (PFOA) and its salts (Appendix 17)</strong></td>
<td>µg/kg</td>
<td>≤ 25</td>
<td></td>
</tr>
<tr>
<td><strong>PFAS: PFOA-related substances (Appendix 17)</strong></td>
<td>µg/kg</td>
<td>≤ 1000 (sum)</td>
<td></td>
</tr>
<tr>
<td><strong>PFAS: long chain perfluoralkyl acids (C9-C14) (Appendix 17)</strong></td>
<td>µg/kg</td>
<td>≤ 25</td>
<td></td>
</tr>
<tr>
<td><strong>PFAS: long chain perfluoralkyl related substances (C9-C14) (Appendix 17)</strong></td>
<td>µg/kg</td>
<td>≤ 260 (sum)</td>
<td></td>
</tr>
<tr>
<td><strong>PFAS: short chain perfluoralkyl substances (Appendix 17)</strong></td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>Refer to ISO 23702-1</td>
</tr>
<tr>
<td>Parameter</td>
<td>Unit</td>
<td>Requirements</td>
<td>Test method reference</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>--------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td><strong>Parameter</strong></td>
<td><strong>Unit</strong></td>
<td><strong>Requirements</strong></td>
<td><strong>Test method reference</strong></td>
</tr>
</tbody>
</table>
| PFAS: Perfluorohexansulfonic acid (PFHxS) and its salts (Appendix 17) | µg/kg | ≤ 25 | CEN/TS 15968  
EN ISO 23702-1 or EN 17681-1 & EN 17681-2 |
| PFAS: PFHxS-related substances (Appendix 17) | µg/kg | ≤ 1000 (sum) | CEN/TS 15968  
EN ISO 23702-1 or EN 17681-1 & EN 17681-2 |
| pH value of aqueous extract | pH | 3.5 – 9 | EN ISO 4045 |
| Phthalates (Appendix 18) | mg/kg | ≤ 50 | CPSC-CH-C1001-09.4  
Ref. ISO 16181 |
| BBP, DBP, DEHP, DIBP, DPP, DMEP, DIHP, DHNUP, DHP-DnHP | mg/kg | < 1000 (sum) | ISO/TS 16189 |
| DIDP, DNOP, DINP | mg/kg | ≤ 500 (≤ 3 years) | GB 19340:2003 “Extraction HS - SPME or Purge &Trap and Analysis by GC-MS”  
ISO/TS 16189 |
| All other esters of o-phthalic acid | mg/kg | < 1000 (sum) | |
| Polychlorobiphenyls (PCB) (Appendix 19) | mg/kg | ≤ 0,1 | Ref. EPA 3540C + EPA 8082A |
| Polychloronaphthalenes (PCN) (Appendix 20) | mg/kg | ≤ 1 | Ref. EPA 3550C + EPA 8270E |
| Polyoxanes (Appendix 22) | mg/kg | ≤ 1000 | Solvent extraction, GC-MS analysis |
| Solvents (Appendix 23) | mg/kg | According to dedicated appendix | GB 19340:2003 “Extraction HS - SPME or Purge & Trap and Analysis by GC-MS”  
ISO/TS 16189 |
| UV-Stabilizers (Appendix 24) | mg/kg | ≤ 1000 | ISO/DIS 24040 Solvent extraction, LC-MS analysis |
### Additional Requirements for Painted and Coated Leather and Fur - Children Products (only for 0-3 years “Infants” and 3-13 years “Children”)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>CAS Nr.</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Metals (extractable)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antimony</td>
<td></td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>EN 71-3</td>
</tr>
<tr>
<td>Arsenic</td>
<td></td>
<td>mg/kg</td>
<td>≤ 25</td>
<td>ASTM F963</td>
</tr>
<tr>
<td>Barium</td>
<td></td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>KS G ISO 8124-3</td>
</tr>
<tr>
<td>Cadmium</td>
<td></td>
<td>mg/kg</td>
<td>≤ 75</td>
<td>ISO 8124-3</td>
</tr>
<tr>
<td>Chromium (total amount)</td>
<td></td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>Extraction with Hydrochloric Acid 0,07M</td>
</tr>
<tr>
<td>Lead</td>
<td></td>
<td>mg/kg</td>
<td>≤ 90</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td></td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td></td>
<td>mg/kg</td>
<td>≤ 500</td>
<td></td>
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</tbody>
</table>

### Additional Requirements for Watches Straps and Similar

<table>
<thead>
<tr>
<th>Parameter</th>
<th>CAS Nr.</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biocides</td>
<td></td>
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</tr>
<tr>
<td>2-Octylisothiazol-3(2H)-on</td>
<td>26530-20-1</td>
<td>mg/kg</td>
<td>≤ 250</td>
<td>ISO 4044 (grinded)</td>
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<tr>
<td>2-Phenylphenol/ortho-Phenylphenol</td>
<td>90-43-7</td>
<td>mg/kg</td>
<td>≤ 500</td>
<td>ISO 13365</td>
</tr>
<tr>
<td>2-(Thiocyanomethylthio)benzothiazol</td>
<td>21564-17-0</td>
<td>mg/kg</td>
<td>≤ 500</td>
<td>or Solvent extraction GC-MS</td>
</tr>
<tr>
<td>4-Chloro-3-methylphenol</td>
<td>59-50-7</td>
<td>mg/kg</td>
<td>≤ 600</td>
<td></td>
</tr>
<tr>
<td>Heavy Metals (total amount)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>mg/kg</td>
<td>≤ 1</td>
<td>ISO 4044 (cut or grinded)</td>
</tr>
<tr>
<td>Cadmium</td>
<td>7440-43-9</td>
<td>mg/kg</td>
<td>≤ 100</td>
<td>ISO 17072-2</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td></td>
</tr>
<tr>
<td>Tin</td>
<td>744031-5</td>
<td>mg/kg</td>
<td>≤ 1</td>
<td></td>
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</table>
### 1.3 Plastic

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asbestos (Appendix 2)</td>
<td>mg/kg</td>
<td>Not detected</td>
<td>Microscopic examination</td>
</tr>
<tr>
<td>Bisphenol A (BPA)</td>
<td>Migration</td>
<td>≤ 0.04</td>
<td>EN 71-10/11 (migration)</td>
</tr>
<tr>
<td></td>
<td>Total amount</td>
<td>≤ 1</td>
<td>Solvent extraction, LC-MS / GC-MS analysis</td>
</tr>
<tr>
<td>Chloroparaffines: Short chained (SCCPs:C_{10-13})</td>
<td>mg/kg</td>
<td>≤ 50 (sum)</td>
<td>Ref. ISO 18219-1</td>
</tr>
<tr>
<td>Chloroparaffines: Medium chained (MCCPs:C_{14-17})</td>
<td>mg/kg</td>
<td>≤ 1000 (sum)</td>
<td>Ref. ISO 18219-2</td>
</tr>
<tr>
<td>Dioxin and Furans (Appendix 7)</td>
<td>mg/kg</td>
<td>According to dedicated appendix</td>
<td>Extraction with organic solvent - GC-MS</td>
</tr>
<tr>
<td>Flame Retardants (Appendix 8)</td>
<td>mg/kg</td>
<td>Not detectable (≤ 5 mg/kg)</td>
<td>Extraction with organic solvent - Analysis by GC-MS; GC-ECD; LC-MS</td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 40</td>
<td>EN 1122 (Microwave digestion - ICP)</td>
</tr>
<tr>
<td>Heavy Metals (total amount)</td>
<td></td>
<td>≤ 40 (jewelry only)</td>
<td>Microwave digestion; ICP-MS/OES - ref: CPSC-CH-E-1002-08.3 CPSC-CH-E-1003-09.1 (painted access.)</td>
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<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td>Microwave digestion ICP-MS/OES</td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 10 (coating materials)</td>
<td>ISO/TS 16179</td>
</tr>
<tr>
<td>Organotin compounds (Appendix 16)</td>
<td>mg/kg</td>
<td>≤ 0.5 (TBT, TBTO, TPhT) ≤ 1 (TBT, TBTO, TPhT) ≤ 1 (TBT, TBTO, TPhT) ≤ 1 (TBT, TBTO, TPhT) ≤ 1 (TBT, TBTO, TPhT) ≤ 2 (others)</td>
<td>CPSC-CH-C1001-09.4; ISO 8124-6</td>
</tr>
<tr>
<td>Phthalates (Appendix 18)</td>
<td>mg/kg</td>
<td>≤ 50</td>
<td></td>
</tr>
<tr>
<td>DIDP, DINP</td>
<td>mg/kg</td>
<td>&lt; 1000 (sum)</td>
<td></td>
</tr>
<tr>
<td>All other esters of o-phthalic acid</td>
<td>mg/kg</td>
<td>≤ 500 (≤ 3 years)</td>
<td></td>
</tr>
<tr>
<td>PFAS: All PFAS as total organic fluorine (TOF)</td>
<td>mg/kg</td>
<td>≤ 100</td>
<td>EN 17813</td>
</tr>
<tr>
<td>Polychlorobiphenyls (PCB) (Appendix 19)</td>
<td>mg/kg</td>
<td>≤ 0.1</td>
<td>Ref. EPA 3540C + EPA 8082A</td>
</tr>
<tr>
<td>Polychloronaphthalenes (PCN) (Appendix 20)</td>
<td>mg/kg</td>
<td>≤ 1</td>
<td>Ref. EPA 3550C + EPA 8270E</td>
</tr>
<tr>
<td>Parameter</td>
<td>Unit</td>
<td>Requirements</td>
<td>Test method reference</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-------</td>
<td>-------------------------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>Polycyclic Aromatic Hydrocarbons (IPA - PAH)</td>
<td>mg/kg</td>
<td><em>Children</em>: ≤ 0.5 &lt; 15 years</td>
<td></td>
</tr>
<tr>
<td>(Appendix 21)</td>
<td></td>
<td><em>Adults</em>: ≤ 1000 &gt; 15 years</td>
<td>AIPS GS 2019:01 PAK</td>
</tr>
<tr>
<td>Siloxanes (Appendix 22)</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>Solvent extraction, GC-MS analysis</td>
</tr>
<tr>
<td>Solvents (Appendix 23)</td>
<td>mg/kg</td>
<td>According to dedicated appendix</td>
<td>GB 19340:2003 &quot;Extraction HS - SPME or Purge &amp; Trap and</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Analysis by GC-MS&quot;</td>
</tr>
<tr>
<td>UV-Stabilizers (Appendix 24)</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>ISO/TS 16189</td>
</tr>
<tr>
<td></td>
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<td>ISO/DIS 24040 Solvent extraction, LC-MS analysis</td>
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<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements: Children (≤ 14 years)</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Metals (Appendix 10)</td>
<td>mg/kg</td>
<td>According to Category III</td>
<td>Extractable Heavy Metals: Hydrochloric Acid 0.07M (EN 71-3)</td>
</tr>
</tbody>
</table>

### Additional Requirements for Painted and Coated Plastic - Children Products (only for 0-3 years “Infants” and 3-13 years “Children”)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Metals (extractable)</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>EN 71-3</td>
</tr>
<tr>
<td>Antimony</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>ASTM F963</td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 25</td>
<td>KS G ISO 8124-3</td>
</tr>
<tr>
<td>Barium</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>ISO 8124-3</td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 75</td>
<td>Extraction with Hydrochloric Acid 0.07M</td>
</tr>
<tr>
<td>Chromium (total amount)</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td>mg/kg</td>
<td>≤ 500</td>
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</table>
## 1.4 Metal

<table>
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<tr>
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<th>Unit</th>
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<th>Test method reference</th>
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<tbody>
<tr>
<td><strong>Children</strong> (&lt;14 years)</td>
<td><strong>Adults</strong> (&gt;14 years)</td>
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</tr>
<tr>
<td>Arsenic (total amount)</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>Microwave digestion ICP-MS/OES GB/T 21198-6 - GB/T 28021</td>
</tr>
<tr>
<td>Bisphenol A (BPA)</td>
<td>mg/kg</td>
<td>≤ 1 (coating materials)</td>
<td>Solvent extraction, LC-MS / GC-MS analysis</td>
</tr>
<tr>
<td>Cadmium (total amount)</td>
<td>mg/kg</td>
<td>≤ 40</td>
<td>Microwave digestion ICP-MS/OES ref: GB/T 28021</td>
</tr>
<tr>
<td>Chromium VI</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>GB/T 28019</td>
</tr>
<tr>
<td>Lead (total amount)</td>
<td>mg/kg</td>
<td>≤40 (jewelry only) ≤ 90</td>
<td>Microwave digestion ICP-MS/OES ref: CPSC-CH-E-1001-08.3 CPSC-CH-E-1003-09.1 (painted acc.) GB/T 28021</td>
</tr>
<tr>
<td>Mercury (total amount)</td>
<td>mg/kg</td>
<td>≤ 1000 ≤ 0,50</td>
<td>Microwave digestion ICP-MS/OES GB/T 21198-6 - GB/T 28021</td>
</tr>
<tr>
<td>Nickel (released from metal accessories in direct and prolonged contact with skin)</td>
<td>µg/cm² x week</td>
<td>≤ 0,50 ≤ 0,20 (only for pierced parts of human body)</td>
<td>EN 1811 (no coated, no painted and no plated accessories) EN 12472 + EN 1811 (coated, painted and plated accessories) EN 16128 (spectacle frames and sunglasses)</td>
</tr>
<tr>
<td>Phthalates (coating materials) (Appendix 18)</td>
<td>mg/kg</td>
<td>≤ 50</td>
<td>CPSC-CH-C1001-09.4; ISO 8124-6</td>
</tr>
<tr>
<td>BBP, DBP, DEHP, DIBP, DPP, DMF, DHP, DHNU, DHP-DnHP, DIDP, DNOP, DINP</td>
<td></td>
<td>&lt;1000 (sum)</td>
<td></td>
</tr>
<tr>
<td>All other esters of o-phthalic acid</td>
<td>mg/kg</td>
<td>≤ 500 (≤ 3 years)</td>
<td>N.A.</td>
</tr>
<tr>
<td>PFAS: all PFAS as total organic fluorine (TOF)</td>
<td>mg/kg</td>
<td>≤ 100 (coating materials)</td>
<td>EN 17813</td>
</tr>
<tr>
<td>Polychlorobiphenyls (PCB) (Appendix 19)</td>
<td>mg/kg</td>
<td>≤ 0,1 (coating materials)</td>
<td>Ref. EPA 3540C + EPA 8082A</td>
</tr>
<tr>
<td>Polychloronaphthalenes (PCN) (Appendix 20)</td>
<td>mg/kg</td>
<td>≤ 1 (coating materials)</td>
<td>Ref. EPA 3550C + EPA 8270E</td>
</tr>
</tbody>
</table>
### Additional Requirements for Painted and Coated Metal - Children Products (only for 0-3 years “Infants” and 3-13 years “Children”)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>EN 71-3</td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 25</td>
<td>ASTM F963</td>
</tr>
<tr>
<td>Barium</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>KS G ISO 8124-3</td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 75</td>
<td>ISO 8124-3</td>
</tr>
<tr>
<td>Chromium  (total amount)</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>Extraction with Hydrochloric Acid 0.07M</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td>mg/kg</td>
<td>≤ 500</td>
<td></td>
</tr>
</tbody>
</table>
### 1.5 Glass and Crystal

<table>
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<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Children (≤ 14 years)</td>
<td>Adults (&gt; 14 years)</td>
</tr>
<tr>
<td>Bisphenol A (BPA)</td>
<td>mg/kg</td>
<td>≤ 1 (coating materials)</td>
<td></td>
</tr>
<tr>
<td>Cadmium (total amount)</td>
<td>mg/kg</td>
<td>≤ 40</td>
<td>≤ 75</td>
</tr>
<tr>
<td>Lead (total amount)</td>
<td>mg/kg</td>
<td>≤ 40 (jewelry only)</td>
<td>≤ 90</td>
</tr>
<tr>
<td>Mercury (total amount)</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>≤ 10 (coating materials)</td>
</tr>
<tr>
<td>PFAS: all PFAS as total organic fluorine (TOF)</td>
<td>mg/kg</td>
<td>≤ 100 (coating materials)</td>
<td></td>
</tr>
<tr>
<td>Polychlorobiphenyls (PCB) (Appendix 19)</td>
<td>mg/kg</td>
<td>≤ 0,1 (coating materials)</td>
<td></td>
</tr>
<tr>
<td>Polychloronaphthalenes (PCN) (Appendix 20)</td>
<td>mg/kg</td>
<td>≤ 1 (coating materials)</td>
<td></td>
</tr>
</tbody>
</table>

### Heavy Metals (extractable)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements: Children (≤ 14 years)</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy metals (Appendix 10)</td>
<td>mg/kg</td>
<td>According to Category III</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Requirements for Painted and Coated Glass - Children Products (only for 0-3 years “Infants” and 3-13 years “Children”)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>EN 71-3, ASTM F963, KS G ISO 8124-3, ISO 8124-3, Extraction with Hydrochloric Acid 0.07M</td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 25</td>
<td></td>
</tr>
<tr>
<td>Barium</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 75</td>
<td></td>
</tr>
<tr>
<td>Chromium (total amount)</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td>mg/kg</td>
<td>≤ 500</td>
<td></td>
</tr>
</tbody>
</table>
### 1.6 Wood and Similar (Bamboo, Cork, etc.)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric Acid</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>Screening Test: acid digestion - ICP-MS Specific Test: aqueous extraction - TEA derivatization - GC-MS</td>
</tr>
<tr>
<td>Asbestos (Appendix 2)</td>
<td>mg/kg</td>
<td>Not detected</td>
<td>Microscopic examination</td>
</tr>
<tr>
<td>Bisphenol A (BPA)</td>
<td>mg/kg</td>
<td>≤ 1 (coating materials)</td>
<td>Solvent extraction, LC-MS / GC-MS analysis</td>
</tr>
<tr>
<td>Dimethyl fumarate (DMFu)</td>
<td>mg/kg</td>
<td>≤ 0.1</td>
<td>ISO/TS 16186</td>
</tr>
<tr>
<td>Flame Retardants (Appendix 8)</td>
<td>mg/kg</td>
<td>Not detectable (&lt; 5 mg/kg)</td>
<td>Extraction with organic solvent - Analysis by GC-MS; GC-ECD; LC-MS</td>
</tr>
<tr>
<td>Formaldehyde (tree and extractable)</td>
<td>mg/kg</td>
<td>≤ 20</td>
<td>EN 717-3</td>
</tr>
<tr>
<td>Heavy Metals (total amount)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 1</td>
<td>Microwave digestion - ICP-MS/OES</td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 40</td>
<td>EN 1122 Microwave digestion; ICP-MS/OES ref: CPSC-CH-E-1004-11</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 40 (jewelry only) ≤ 75 (only for children) ≤ 75</td>
<td>Microwave digestion; ICP-MS/OES ref: CPSC-CH-E-1002-08.3 CPSC-CH-E-1003-09.1 (painted acc.)</td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 1000 ≤ 10 (painted accessories)</td>
<td>Microwave digestion ICP-MS/OES</td>
</tr>
<tr>
<td>Mercury compounds (Appendix 11)</td>
<td>mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organotin compounds:</td>
<td>mg/kg</td>
<td>≤ 0.5 (TBT, TBTO, TPhT) ≤ 1 (TBT, TBTO, TPhT) ≤ 1 (TBT, TBTO, TPhT) ≤ 2 (others)</td>
<td>ISO/TS 16179</td>
</tr>
<tr>
<td>Pentachlorophenol (PCP)</td>
<td>mg/kg</td>
<td>≤ 0.5</td>
<td>BVL B 82.02-08 (modified) - Potassium Hydroxide extraction direct LC-MS analysis or derivatization followed by GC-MS analysis</td>
</tr>
<tr>
<td>Tetrachlorophenols (TeCP)</td>
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<td></td>
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</tr>
<tr>
<td>Trichlorophenols (TCP)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Appendix 6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFAS: All PFAS as total organic fluorine</td>
<td>mg/kg</td>
<td>≤ 100</td>
<td>EN 17813</td>
</tr>
<tr>
<td>(TOF)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polychlorobiphenyls (PCB)</td>
<td>mg/kg</td>
<td>≤ 0.1 (coating materials)</td>
<td>Ref. EPA 3540C + EPA 8082A</td>
</tr>
<tr>
<td>(Appendix 19)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polychloronaphthalenes (PCN)</td>
<td>mg/kg</td>
<td>≤ 1 (coating materials)</td>
<td>Ref. EPA 3550C + EPA 8270E</td>
</tr>
<tr>
<td>(Appendix 20)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Unit</td>
<td>Requirements</td>
<td>Test method reference</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Polycyclic Aromatic Hydrocarbons (IPA - PAH) (Appendix 21)               | mg/kg  | Babies (< 36 months) : < 0.5  
Children (3-14 years) & Adults (>14 years) : < 1 | AIPS GS 2019:01 PAK                                                                   |
| Preservatives : Cyfluthrin, Cypermethrin, Deltamethrin, Lindane, Permethrin | mg/kg  | ≤ 5 Cyfluthrin, Cypermethrin, Deltamethrin, Permethrin                      | EN 71-9: GC Test Method (GC-MS; GC-ECD); extraction ethyl alcohol/ acetic acid          |
| Siloxanes (Appendix 22)                                                  | mg/kg  | ≤ 1000                                                                      | Solvent extraction, GC-MS analysis                                                     |
| Solvents (Appendix 23)                                                   | mg/kg  | According to dedicated appendix                                              | GB 19340; “Extraction HS-SPME or Purge &Trap and Analysis by GC-MS”; ISO 16189        |

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>Unit</th>
<th>Requirements: Children (≤ 14 years)</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy metals (Appendix 10)</td>
<td>mg/kg</td>
<td>According to Category III</td>
<td>Extractable Heavy Metals: Hydrochloric Acid 0.07M (EN 71-3)</td>
</tr>
</tbody>
</table>

**Additional Requirements for Painted and Coated Wood - Children Products (only for 0-3 years “Infants” and 3-13 years “Children”)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Metals (extractable)</td>
<td>mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antimony</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>EN 71-3</td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 25</td>
<td>ASTM F963</td>
</tr>
<tr>
<td>Barium</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td>KS G ISO 8124-3</td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 75</td>
<td>ISO 8124-3</td>
</tr>
<tr>
<td>Chromium (total amount)</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>Extraction with Hydrochloric Acid 0.07M</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 90</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td>mg/kg</td>
<td>≤ 500</td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Unit</td>
<td>Requirements</td>
<td>Test method reference</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>--------</td>
<td>--------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Bisphenols</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>BPA</td>
<td>mg/kg</td>
<td>≤ 200</td>
<td>Solvent extraction, LC-MS / GC-MS analysis</td>
</tr>
<tr>
<td>BPF</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td>BPS</td>
<td>mg/kg</td>
<td>≤ 1000</td>
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</tr>
<tr>
<td><strong>Azo Dyes: aryl amines can be split off</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>under reductive conditions (Appendix 9)</td>
<td>mg/kg</td>
<td>≤ 20</td>
<td>UNI EN ISO 14362-1,3 UNI EN ISO 14362-1  GB/T 17592.1 GB/T 23344</td>
</tr>
<tr>
<td><strong>Heavy Metals</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(total amount)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 100 (sum)</td>
<td>Microwave digestion ICP-MS/OES ref: CPSC-CH-E-1002-08.3; Cr VI: EN ISO 17075-2</td>
</tr>
<tr>
<td>Chromium VI</td>
<td>mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 100 (sum)</td>
<td></td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Formaldehyde</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(free and extractable)</td>
<td>mg/kg</td>
<td>≤ 75</td>
<td>EN 645; EN 1541</td>
</tr>
<tr>
<td><strong>Phthalates (Appendix 18)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(painting/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>coating materials)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BBP, DBP, DEHP, DIBP, DPP, DMEP, DHP,</td>
<td>mg/kg</td>
<td>≤ 50</td>
<td>EN 14389 CPSC-CH-C1001-09.4 GB/T 20388 ISO 8124-6</td>
</tr>
<tr>
<td>DINP</td>
<td>mg/kg</td>
<td>&lt;1000 (sum)</td>
<td></td>
</tr>
<tr>
<td>All other esters of o-phthalic acid</td>
<td>mg/kg</td>
<td>≤ 500 (≤ 3 years)</td>
<td>N.A.</td>
</tr>
<tr>
<td><strong>Alkylphenolethoxylates (APEOs) (Appendix 14)</strong></td>
<td>mg/kg</td>
<td>&lt;100 (sum)</td>
<td>Estrazione con solvente organico Analisi in GC-MS, riferimento ISO 18857-1</td>
</tr>
<tr>
<td><strong>Alkylphenols (APs) (Appendix 15)</strong></td>
<td></td>
<td>≤ 100 (sum)</td>
<td>Estrazione con solvente organico Analisi in LC-MS, riferimento ISO 18254-1</td>
</tr>
<tr>
<td><strong>PFAS: All PFAS as total organic fluorine</strong></td>
<td></td>
<td>≤ 100</td>
<td>EN 17813</td>
</tr>
<tr>
<td>(TOF)</td>
<td>mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Siloxanes (Appendix 22)</strong></td>
<td></td>
<td>≤ 1000</td>
<td>Solvent extraction, GC-MS analysis</td>
</tr>
<tr>
<td>Parameter</td>
<td>Unit</td>
<td>Requirements</td>
<td>Test method reference</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>--------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Arsenic (total amount)</td>
<td>mg/kg</td>
<td><strong>Child</strong>: ≤ 1000</td>
<td><strong>Adults</strong>: ≤ 1000</td>
</tr>
<tr>
<td>Bisphenol A (BPA)</td>
<td>mg/kg</td>
<td><strong>Child</strong>: ≤ 1 (coating materials)</td>
<td><strong>Adults</strong>: ≤ 1 (coating materials)</td>
</tr>
<tr>
<td>Cadmium (total amount)</td>
<td>mg/kg</td>
<td><strong>Child</strong>: ≤ 40</td>
<td><strong>Adults</strong>: ≤ 75</td>
</tr>
<tr>
<td>Chromium VI</td>
<td>mg/kg</td>
<td><strong>Child</strong>: ≤ 1000</td>
<td><strong>Adults</strong>: ≤ 1000</td>
</tr>
<tr>
<td>Lead (total amount)</td>
<td>mg/kg</td>
<td><strong>Child</strong>: ≤ 40</td>
<td><strong>Adults</strong>: ≤ 90</td>
</tr>
<tr>
<td>Mercury (total amount)</td>
<td>mg/kg</td>
<td><strong>Child</strong>: ≤ 1000</td>
<td><strong>Adults</strong>: ≤ 10 (coating materials)</td>
</tr>
<tr>
<td>Nickel (released from metal accessories in direct and prolonged contact with skin)</td>
<td>μg/ cm² x week</td>
<td><strong>Child</strong>: ≤ 0.50</td>
<td><strong>Adults</strong>: ≤ 0.20 (only for pierced parts of human body)</td>
</tr>
<tr>
<td>Extractable Heavy Metals (HCl 0.07M)</td>
<td>Unit</td>
<td>Requirements</td>
<td>Test method reference</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------</td>
<td>--------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Children (&lt; 14 years)</td>
<td>Adults (&gt;14 years) only coated and painted materials</td>
</tr>
<tr>
<td>Aluminium</td>
<td>mg/kg</td>
<td>≤ 28130</td>
<td>N.A.</td>
</tr>
<tr>
<td>Antimony</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>mg/kg</td>
<td>≤ 25</td>
<td></td>
</tr>
<tr>
<td>Barium</td>
<td>mg/kg</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 17</td>
<td>≤ 75</td>
</tr>
<tr>
<td>Chromium (total)</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td></td>
</tr>
<tr>
<td>Chromium (VI)</td>
<td>mg/kg</td>
<td>≤ 0.053</td>
<td>N.A.</td>
</tr>
<tr>
<td>Cobalt</td>
<td>mg/kg</td>
<td>≤ 130</td>
<td>N.A.</td>
</tr>
<tr>
<td>Copper</td>
<td>mg/kg</td>
<td>≤ 7700</td>
<td>N.A.</td>
</tr>
<tr>
<td>Lead</td>
<td>mg/kg</td>
<td>≤ 23</td>
<td>N.A.</td>
</tr>
<tr>
<td>Manganese</td>
<td>mg/kg</td>
<td>≤ 15000</td>
<td>≤ 60</td>
</tr>
<tr>
<td>Mercury</td>
<td>mg/kg</td>
<td>≤ 60</td>
<td>≤ 60</td>
</tr>
<tr>
<td>Nickel</td>
<td>mg/kg</td>
<td>≤ 930</td>
<td>N.A.</td>
</tr>
<tr>
<td>Selenium</td>
<td>mg/kg</td>
<td>≤ 460</td>
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<tr>
<td>Strontium</td>
<td>mg/kg</td>
<td>≤ 56000</td>
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<tr>
<td>Organotin Compounds</td>
<td>mg/kg</td>
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<td>Tin</td>
<td>mg/kg</td>
<td>≤ 180000</td>
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<tr>
<td>Zinc</td>
<td>mg/kg</td>
<td>≤ 46000</td>
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### 1.9 Additional Requirements for Footwear

#### Rubber Shoes, Children’s Footwear and Children’s Canvas Rubber

<table>
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<tr>
<th>Parameter</th>
<th>Field of application</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
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<tr>
<td></td>
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<td></td>
<td>Infants (≤ 36 months)</td>
<td>Children (3-14 years)</td>
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<tr>
<td>Chlorinated phenols: PCP and 2,3,5,6-TeCP</td>
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<td>mg/kg</td>
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<tr>
<td>Heavy Metals (extractable)</td>
<td>Arsenic</td>
<td>Uppers, linings and insocks (textile, synthetic leather and artificial leather)</td>
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<td>&lt; 1</td>
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<td></td>
<td>Cadmium</td>
<td>mg/kg</td>
<td>≤ 0,1</td>
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<tr>
<td></td>
<td>Lead</td>
<td>mg/kg</td>
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<tr>
<td>pH Value</td>
<td>mg/kg</td>
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<td>4,0 - 9,0</td>
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<td>Chromium VI</td>
<td>mg/kg</td>
<td>Leather and fur</td>
<td>≤ 3</td>
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<tr>
<td>Decomposable harmful aromatic amine dye (Appendix 9)</td>
<td>mg/kg</td>
<td>Textile, synthetic leather, artificial leather, leather and fur</td>
<td>≤ 20 (textile)</td>
<td>&lt; 30 (leather and fur)</td>
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<td>Dimethyl fumarate</td>
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<td>Formaldehyde</td>
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<tr>
<td>Colour fastness to rubbing</td>
<td>mg/kg</td>
<td>Lining and insocks (staining)</td>
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<td>N-nitrosamines (Appendix 13)</td>
<td>mg/kg</td>
<td>Rubber components</td>
<td>&lt; 0,5</td>
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<tr>
<td>Odorous</td>
<td>mg/kg</td>
<td>All parts of footwear product</td>
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<th>Test method reference</th>
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<td>Infants (≤ 14 years)</td>
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<td>Arsenic</td>
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<td>Cadmium</td>
<td>mg/kg</td>
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<tr>
<td>Lead</td>
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</table>
Several States (Maine, Oregon, Vermont, etc.) in the US enacted Regulations to map and possibly avoid the use of hazardous chemicals of concern in Children’s Products. Suppliers must comply with the non-intentional use of these chemicals; in case of the use cannot be avoided, suppliers must inform us immediately.

A possible presence as contaminant is allowed if the total concentration of each chemical in the material/product is under 100 mg/kg. Suppliers must assure that this maximum level of contamination is respected. If the level of contamination is higher, the material/product is not compliant: suppliers must inform us immediately also in this case.

The chemicals involved are listed below. Some chemicals can have different requirements due to specific restrictions as reported in other the sections of this document. Please refer to the following table (limit in mg/kg), bearing in mind that for Children’s products in US the total concentration limit is 100 mg/kg.

| Substance                                                                 | CAS No.     | 1.1 Textile | 1.2 Leather & Fur | 1.3 Plastic | 1.4 Metal | 1.5 Glass & Crystal | 1.6 Wood & Similar | 1.7 Paper & Similar | 1.8 Jewelry | 1.9 Footwear |
|-------------------------------------------------------------------------|-------------|-------------|-------------------|-------------|-----------|---------------------|-------------------|---------------------|-------------|-------------|-------------|
| 1,1,2,2-Tetrachloroethane (Solvents)                                    | 79-34-5     | 1000        | 1000              | 1000        | 1000      |                     |                   |                     |             |             |             |
| 1,4-Dioxane                                                             | 123-91-1    |             |                   |             |           |                     |                   |                     |             |             |             |
| 2,4-Diaminotoluene (Azo Dyes)                                           | 95-80-7     | 20          | 30                |             |           |                     |                   |                     |             |             |             |
| 2-Aminotoluene (Azo Dyes)                                               | 95-53-4     | 20          | 30                |             |           |                     |                   |                     |             |             |             |
| 2-ethylhexanoic acid                                                    | 149-57-5    |             |                   |             |           |                     |                   |                     |             |             |             |
| 2-ethylhexyl-2,3,4,5-tetramethoxybenzoate (TBB) (Flame Retardants)      | 183658-27-7 | 5           | 5                 | 5           | 5         |                     |                   |                     |             |             |             |
| 2-Ethylhexyl-4-methoxyphenylcinnamate                                   | 5466-77-3   |             |                   |             |           |                     |                   |                     |             |             |             |
| 2-Methoxyethanol (Solvents)                                             | 109-86-4    | 10          | 10                | 10          | 10        |                     |                   |                     |             |             |             |
| 3,3’-Dimethylbenzidine (Azo Dyes)                                       | 119-93-7    | 20          | 30                |             |           |                     |                   |                     |             |             |             |
| 4-chloroaniline (Azo Dyes)                                              | 106-47-8    | 20          | 30                |             |           |                     |                   |                     |             |             |             |
| 4-Hydroxybenzoic acid                                                   | 99-96-7     |             |                   |             |           |                     |                   |                     |             |             |             |
| 4-Nonylphenol (Nonylphenols and Octylphenols)                           | 104-40-5    | 100 (sum)   | 100 (sum)         | 100 (sum)   | 100 (sum) |                     |                   |                     |             |             |             |
| 4-Nonylphenol, branched (Nonylphenols and Octylphenols)                 | 84852-15-3  | 100 (sum)   | 100 (sum)         | 100 (sum)   | 100 (sum) |                     |                   |                     |             |             |             |
| 4-Nonylphenol, branched, ethoxylated (Nonylphenolethoxylates and Octylphenolethoxylates) | 127087-87-0 | 100 (sum)   | 100 (sum)         | 100 (sum)   | 100 (sum) |                     |                   |                     |             |             |             |
| 4-Nonylphenol, ethoxylated (Nonylphenolethoxylates and Octylphenolethoxylates) | 26027-38-3  | 100 (sum)   | 100 (sum)         |             |           |                     |                   |                     |             |             |             |
| 4-Nonylphenyl-polyethylene glycol (Nonylphenolethoxylates and Octylphenolethoxylates) | 9016-45-9 | 100 (sum) | 100 (sum) | 100 (sum) |             |                     |                   |                     |             |             |             |
| 4-Octylphenol (Nonylphenols and Octylphenols)                           | 1806-26-4   | 100 (sum)   | 100 (sum)         | 100 (sum)   | 100 (sum) |                     |                   |                     |             |             |             |
| 4-tet-Octylphenol (Nonylphenols and Octylphenols)                       | 140-66-9    | 100 (sum)   | 100 (sum)         |             |           |                     |                   |                     |             |             |             |
| Acetaldehyde                                                             | 75-07-0     |             |                   |             |           |                     |                   |                     |             |             |             |
| Acrylonitrile                                                           | 107-13-1    |             |                   |             |           |                     |                   |                     |             |             |             |
| Aniline                                                                 | 62-53-3     |             |                   |             |           |                     |                   |                     |             |             |             |
| Antimony (Heavy Metals)                                                 | 7440-36-0   | *extractable | *extractable      | *extractable | *extractable | *extractable         |                   |                     |             |             |             |
| Antimony Compounds (Heavy Metals)                                       | various     | *extractable | *extractable      | *extractable | *extractable | *extractable         |                   |                     |             |             |             |
| Arsenic (Heavy Metals)                                                  | 7440-38-2   | *extractable | 1                 | *extractable | *extractable | *extractable         |                   |                     |             |             |             |
| Arsenic Compounds (Heavy Metals)                                        | various     | *extractable | 1                 | *extractable | *extractable | *extractable         |                   |                     |             |             |             |

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<th>1.4 Metal &amp; Crystal</th>
<th>1.5 Glass &amp; Similar</th>
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<th>1.7 Paper &amp; Similar</th>
<th>1.8 Jewelry</th>
<th>1.9 Footwear</th>
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<td>Hexachlorobenzene (Biocides + Chlorobenzenes and Chlorotoluenes)</td>
<td>118-74-1</td>
<td>0,5</td>
<td>0,5</td>
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<tr>
<td>Hexachlorobutadiene (HCDB)</td>
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<tr>
<td>Isopropylated triphenyl phosphate (IPTPP)</td>
<td>68937-41-7</td>
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<tr>
<td>Lead (Heavy Metals)</td>
<td>7439-92-1</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>100 (sum)</td>
<td>40</td>
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<tr>
<td>Lead Compounds (Heavy Metals)</td>
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<td>90</td>
<td>90</td>
<td>90</td>
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<td>90</td>
<td>90</td>
<td>100 (sum)</td>
<td>40</td>
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<tr>
<td>Mercury (Heavy Metals + Mercury Compounds)</td>
<td>7439-97-6</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>100 (sum)</td>
<td>*extractable</td>
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<tr>
<td>Mercury Compounds (Heavy Metals + Mercury Compounds)</td>
<td>various</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>100 (sum)</td>
<td>*extractable</td>
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<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
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<td>Methyl mercury</td>
<td>22967-92-6</td>
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<td>Methyl paraben</td>
<td>99-76-3</td>
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<tr>
<td>Methylene chloride (Solvents)</td>
<td>75-09-2</td>
<td>50 (sum)</td>
<td>50 (sum)</td>
<td>50 (sum)</td>
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<tr>
<td>Molybdenum</td>
<td>7439-98-7</td>
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<tr>
<td>Molybdenum Compounds</td>
<td>various</td>
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<tr>
<td>N-Methylpyrrolidone (Solvents)</td>
<td>872-50-4</td>
<td>1000</td>
<td>1000</td>
<td>1000</td>
<td></td>
<td></td>
<td>1000</td>
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<tr>
<td>N-nitrosodimethylamine (N-nitrosamines)</td>
<td>62-75-9</td>
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<td>N-Nitrosodiphenylamine</td>
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<tr>
<td>Nonyl phenol (Nonylphenols and Octylphenols)</td>
<td>140-40-5</td>
<td>100 (sum)</td>
<td>100 (sum)</td>
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<td>Octamethyldicyclohexasiloxane</td>
<td>556-67-2</td>
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<tr>
<td>Pentachlorobenzene (Chlorobenzenes and Chlorotoluenes)</td>
<td>608-93-5</td>
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<tr>
<td>Perfluorooctanesulfonates (PFOS)</td>
<td>1763-23-1</td>
<td>1 µg/m²</td>
<td>1 µg/m²</td>
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<tr>
<td>Perfluorooctanoic Acid (PFOA)</td>
<td>335-67-1</td>
<td>25 µg/kg</td>
<td>25 µg/kg</td>
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<tr>
<td>PFAS: Long chain perfluoralkyl acids (C9-C14)</td>
<td>various</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
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</tr>
<tr>
<td>PFAS: Long chain perfluoralkyl related substances (C9-C14)</td>
<td>various</td>
<td>25 µg/kg</td>
<td>25 µg/kg</td>
<td></td>
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<td>Phenol</td>
<td>108-95-2</td>
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<td>Phthalic anhydride</td>
<td>85-44-9</td>
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<tr>
<td>Polyoxymethylene nonylphenylether, branched (NPEs 3-18) (Nonylphenolethoxylates and Octylphenolethoxylates)</td>
<td>68412-54-4</td>
<td>100 (sum)</td>
<td>100 (sum)</td>
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<tr>
<td>Propyl paraben</td>
<td>94-13-3</td>
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<tr>
<td>Short-chain chlorinated paraffins (SCCP)</td>
<td>85535-84-8</td>
<td>50</td>
<td>50</td>
<td>50</td>
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<tr>
<td>Styrene</td>
<td>100-42-5</td>
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<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>1.1 Textile</th>
<th>1.2 Leather &amp; Fur</th>
<th>1.3 Plastic</th>
<th>1.4 Metal</th>
<th>1.5 Glass &amp; Crystal</th>
<th>1.6 Wood &amp; Similar</th>
<th>1.7 Paper &amp; Similar</th>
<th>1.8 Jewelry</th>
<th>1.9 Footwear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrabromobisphenol A (TBBPA) (Flame Retardants)</td>
<td>79-94-7</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td></td>
<td>5</td>
<td>1000</td>
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<tr>
<td>Tetrachloroethene (Solvents)</td>
<td>127-18-4</td>
<td>1000</td>
<td>1000</td>
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<td></td>
<td>1000</td>
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<tr>
<td>Toluene (Solvents)</td>
<td>108-88-3</td>
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<td>200</td>
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<tr>
<td>Tricresyl phosphate (TCP)</td>
<td>1330-78-5</td>
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<tr>
<td>Tri-n-butyl phosphate (TNBP)</td>
<td>126-73-8</td>
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<tr>
<td>Triphenyl phosphate (TPP)</td>
<td>115-86-6</td>
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<tr>
<td>Tris (2,3-dibromopropyl) phosphate (TDBPP) (Flame Retardants)</td>
<td>126-72-7</td>
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<tr>
<td>Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) (Flame Retardants)</td>
<td>13674-87-8</td>
<td>5</td>
<td>5</td>
<td>5</td>
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<tr>
<td>Tris(1-chloro-2-propyl) phosphate (TCP) (Flame Retardants)</td>
<td>13674-84-5</td>
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<tr>
<td>Tris(2-chloroethyl) phosphate (TCEP) (Flame Retardants)</td>
<td>115-96-8</td>
<td>5</td>
<td>5</td>
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<tr>
<td>Unbekanntes Farbmittel 94 (SIN list) (Nonylphenolethoxylates and Octylphenolethoxylates)</td>
<td>37205-87-1</td>
<td>100 (sum)</td>
<td>100 (sum)</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

(1) Formaldehyde releasing compounds are defined as "substances that are intentionally added to release formaldehyde". Among these substances, we can list many preservatives, as 5-Bromo-5-nitro1,3-dioxane, Bronopol, Diazolidinyl urea, DMDM hydantoin (1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione), Imidazolidinyl urea, Phenylmethoxy methanol, Methenamine, Quaternium-15, Sodium N-(hydroxymethyl) glycinate, etc.
2. KERING PRODUCT SAFETY REQUIREMENTS

2.1 Main Requirements (All Products)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Field of application</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawstrings</td>
<td>≤ 14 years</td>
<td>According to Test method reference</td>
<td>GB 31701; EN 14682; ASTM F1816</td>
</tr>
<tr>
<td>Magnetic component</td>
<td>All products</td>
<td>≤ 8 years: No magnetic component</td>
<td>ISO 8124-1; ASTM F963; EN 71-1; GB 6675.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 8 years: Magnetic Flux Index &lt; 50 kG²mm² and in compliance in small part test</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Specific warning is mandatory</td>
<td></td>
</tr>
<tr>
<td>Sharp edge</td>
<td>All products</td>
<td>No sharp edge</td>
<td>GB/T 31702; EN-71-1; ISO 8124-1; 16 CFR Parts 1500.49</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ASTM F 963 4.7</td>
</tr>
<tr>
<td>Sharp point</td>
<td>All products</td>
<td>No sharp point</td>
<td>GB/T 31702; EN-71-1; ISO 8124-1; 16 CFR Parts 1500.48</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ASTM F 963 4.8</td>
</tr>
<tr>
<td>Small parts</td>
<td>≤ 36 months</td>
<td>No small parts</td>
<td>GB 31701; EN-71-1; ISO 8124-1; 16 CFR Parts 1501</td>
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<td></td>
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<td>ASTM F 963 4.6</td>
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## 2.2 Flammability for Textile (Raw Material and Finished Product)

<table>
<thead>
<tr>
<th>Field of application</th>
<th>Requirements</th>
<th>Country</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Children Sleepwear</strong>&lt;sup&gt;(0-14 years)&lt;/sup&gt;</td>
<td>Flame spread time: when tested in accordance with ISO 6941 the flame spread time shall be 12 sec. or greater in the lengthwise direction and the width-wise direction, and no one determination of the time to burn a test specimen shall be less than 10 seconds in either the lengthwise direction or the width-wise direction. No melt/drip property sufficient to ignite the filter paper and cause it to burn a length of 20 mm in any direction from the point of impact. Surface burning requirements for fabrics with a pile or nap (raised surface): when tested in accordance with ISO 10047, fabrics with a pile or nap shall have a minimum surface burning time of 10 sec after washing.</td>
<td>Australia</td>
<td>AS/NZS 1249:2014</td>
</tr>
<tr>
<td></td>
<td>An average char length for five specimens that does not exceed 178 mm; and not more than one individual specimen with a char length equal to the full length of the specimen (254 mm). Remark: tight-fitting sleepwear when tested in accordance with CGSB standard CAN/CGSB 4.2 No. 27.5 must have a flame spread time of more than seven seconds.</td>
<td>Canada</td>
<td>Method F-17</td>
</tr>
<tr>
<td></td>
<td>Class A (nightwear excluding pajamas): no surface flash and the 3rd marker thread (520 mm) should not be severed in less than 15 sec. Class B (Pajamas): No surface flash and the 3rd marker thread (520 mm) should not be severed in less than 10 sec.</td>
<td>EU</td>
<td>EN 14878</td>
</tr>
<tr>
<td></td>
<td>Average char length requirement: • average of 5 specimens cannot be greater than 7.0 inches. Individual char length requirement: • fabric testing - no more than 1 individual specimens have individual char length of 10 inches; • prototype seam/trim testing – no more than 2 individual specimens have individual char length of 10 inches; • garment testing – no more than 3 individual specimens have individual char length of 10 inches. Exceptions: • Size 9 months and smaller, or • Tight-fitting as defined in §1615.1(o) and §1616.2(m). &quot;Children’s Sleepwear&quot; means any product of wearing apparel, such as nightgowns, pajamas, or similar or related items, such as robes, loungewear, intended to be worn primarily for sleeping or activities related to sleeping, except diapers, underwear, infant garments, and tight-fitting garments.</td>
<td>USA</td>
<td>16 CFR Parts 1615 &amp; 1616</td>
</tr>
<tr>
<td><strong>Children’s textile products</strong>&lt;sup&gt;(0-14 years)&lt;/sup&gt;</td>
<td>The outer-layer fabrics (and lining that can be exposed during normal use of the products) are examined; wool, acrylic, modified acrylic, polyamide, polypropylene and polyester textiles as well as the textiles of these fiber blending are not examined; the textiles with mass per unit area greater than 90g/m² are not examined. Plain Surface Fabric: Class 1; Raised Surface Fabric: Class 1.</td>
<td>China</td>
<td>GB/T 14644</td>
</tr>
<tr>
<td><strong>Children &amp; Adults Clothing</strong></td>
<td>The flame spread over 127 mm may not be shorter than 4 seconds. Clothing Products for children in sizes up to and including 170 cm by testing the fabric should not have a life of 7 seconds or less. Clothing Products for adults: flame spread of 127 mm must be no less than 4 seconds. Other apparel products and fabric suitable for clothing such as when testing the fabric should not have a burn time of 5 seconds or less. Textile materials should not be flammable and combustible that they pose a disproportionately high risk. Garments, and yarns for the manufacture of garments should not have rapid flame spread on its surface.</td>
<td>Netherlands</td>
<td>ASTM D1230</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Norway</td>
<td>ASTM D1230-61</td>
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<tr>
<td></td>
<td></td>
<td>Switzerland</td>
<td>SN EN 1101; SN EN 1102; SN EN 1103</td>
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</table>
### Field of application

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Country</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Children &amp; Adults Clothing</strong></td>
<td>USA</td>
<td>16 CFR Parts 1610</td>
</tr>
<tr>
<td>Plain Surface Fabric: Class 1;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raised Surface Fabric: Class 1 - Class 2.</td>
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</tr>
<tr>
<td>Exemption:                      Plain surface fabrics: with weight exceeding 2.6 oz/yd² (about 88 g/m²) or not weight dependent if obtained entirely or with a blend only made of the following fibers: acrylic, mod acrylic, nylon, olefin, polyester, wool.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raised surface fabrics: not weight dependent if obtained entirely or with a blend only made of the following fibers: acrylic, mod acrylic, nylon, olefin, polyester, wool.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Children &amp; Adults Nightwear</strong></td>
<td>Netherlands</td>
<td>EN 1103</td>
</tr>
<tr>
<td>Children’s nightwear: marker thread (520 mm) not severed in less than 17 seconds, no ignition of filter paper by flaming debris in less than 17 seconds. Adult nightwear: marker thread (520 mm) not severed in less than 10 seconds and no ignition of filter paper by flaming debris in less than 10 seconds.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meet Flammability Standard BS 5722 or labelled appropriately: 300 mm trip threat not severed in less than 25 seconds and 600 mm trip threat not severed in less than 50 seconds.</td>
<td>UK</td>
<td>BS 5722; BS 5438; BS 5651</td>
</tr>
<tr>
<td><strong>General textile products</strong></td>
<td>Canada</td>
<td>CAN/CGSB 4.2 N. 27.5-94</td>
</tr>
<tr>
<td>Textile products are prohibited if they have a flame spread time of one of the following: 3.5 seconds or less, if the product does not have a raised fiber surface; or 4 seconds or less, if the product has a raised fiber surface and exhibits ignition or fusion of its base fibers.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Textile materials should not be flammable and combustible that they pose a disproportionately high risk. Garments, and yarns for the manufacture of garments should not have rapid flame spread on its surface.</td>
<td>Switzerland</td>
<td>SN EN 1101; SN EN 1102; SN EN 1103</td>
</tr>
<tr>
<td><strong>Vinyl plastic film</strong></td>
<td>USA</td>
<td>16 CFR 1611</td>
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<tr>
<td>The rate of burning shall not exceed 1.2 in/sec.</td>
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</table>

### 2.3 Hygiene and Cleanliness for Feather and Down

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Requirements</th>
<th>Test method reference</th>
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<tbody>
<tr>
<td>Mesophilic aerobic microbial count</td>
<td>Colony Forming units (CFU/g)</td>
<td>&lt; 10⁶</td>
<td>EN 1884</td>
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<td>Oxygen index number</td>
<td>Oxygen index number</td>
<td>≤ 20</td>
<td>EN 1162</td>
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<td></td>
<td></td>
<td>≤ 4,8</td>
<td>JIS L1903</td>
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<td></td>
<td></td>
<td>≤ 10</td>
<td>ASTM D-4522</td>
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<tr>
<td>Salmonella</td>
<td>Colony Forming units (CFU/g)</td>
<td>Absent in 20 g</td>
<td>EN 1884</td>
</tr>
<tr>
<td>Streptococci</td>
<td>Colony Forming units (CFU/g)</td>
<td>&lt; 10²</td>
<td>EN 1884</td>
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<td>Sulphite reducing clostridia count</td>
<td>Colony Forming units (CFU/g)</td>
<td>&lt; 10²</td>
<td>EN 1884</td>
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</table>
3. GLOSSARY: abbreviations and definitions

- CAS = Chemical Abstracts Service. CAS Registry Numbers (often referred to as CAS RNs or CAS Numbers) are unique identifiers for chemical substances.
- CEN = European Committee for Standardization.
- CEN/TS = Technical Specification established by CEN.
- CPSIA = Consumer Product Safety Improvement Act.
- CFU (Colony Forming Units) = unit used to estimate the number of viable bacteria or fungal cells in a sample: the value shown is the base 10 logarithms of the concentration.
- DIN = German Institute for Standardisation (Deutsches Institut für Normung).
- ECD = Electron Capture Detector.
- EN = European Standard.
- EPA = Environmental Protection Agency (U.S.).
- GB = Chinese national standards issued by the Standardization Administration of China (SAC), the Chinese National Committee of the ISO and IEC. GB are mandatory standards.
- GB/T = "recommended" Chinese standards.
- GC-MS = Gas Chromatography/Mass Spectrometer.
- ICP-MS = Inductively Coupled Plasma Mass Spectrometry.
- ISO = International Organization for Standardization.
- JIS = Japanese Industrial Standard.
- LFGB = Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch - German Law Book on food, consumer article and feed.
- LC-MS = Liquid Chromatography/Mass Spectrometer.
- mg/L = milligram per liter.
- mg/kg = milligram per kilogram, unit describing concentrations of chemical substances. 1 mg/kg can also be notated as 1 ppm (Parts Per Million) or 1 microgram per gram (μg/g).
- pH = potential of hydrogen, is a numeric scale used to specify the acidity or basicity of an aqueous solution.
- N.A. = Not applicable.
- Not detectable (≤ XX mg/kg) = the number XX is the lowest limit value which can be detected by the selected test method.
- Not detected = the substance must not be present in the finished product.
- REACH = Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals.
- SPME = Solid-phase micro extraction.
- SVHC = Substance of Very High Concentration.
- TLC = Thin-Layer Chromatography.
- TOF = Total Organic Fluorine
- UNI = Ente Nazionale italiano di Unificazione, is a non-profit private association recognized by Italian State and the European Union.

4. TRANSLATION OF UNITS: conversion table for mg/kg (ppm) and %

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<th>10</th>
<th>100</th>
<th>1.000</th>
<th>10.000</th>
<th>100.000</th>
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<td>0,00001</td>
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<td>1</td>
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<td>100</td>
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5. APPENDIX: INDIVIDUAL SUBSTANCES

1. Allergenic Disperse Dyes
2. Asbestos
3. Biocides
4. Carcinogenic Dyes
5. Chlorobenzene and Chlorotoluenes
6. Chlorophenols
7. Dioxin and Furans
8. Flame Retardants
9. Forbidden Aryl amines
10. Heavy Metals (extractable)
11. Mercury compounds
12. Navy Blue
13. N-nitrosamines
14. Alkylphenolethoxylates (APEOs)
15. Alkylphenols (APs)
16. Organotin compounds
17. PFAS
18. Phthalates
19. Polychlorobiphenyls (PCB)
20. Polychloronaphthalenes (PCN)
21. Polycyclic Aromatic Hydrocarbons (IPA - PAH)
22. Siloxanes
23. Solvents: Chlorinated Solvents, Volatile Organic Compound (VOC) and Other Solvents
24. UV-Stabilizers
25. Bisphenols
### Appendix 1: Allergenic Disperse Dyes

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<th>C.I. No.</th>
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<td>18</td>
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<td>119-15-3</td>
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<td>C.I. Disperse Yellow 3</td>
<td>C.I. 11 855</td>
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<td>C.I. 10 375</td>
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(*) Azo dye from which forbidden aryl amine (4-amino azobenzene) can be split off under reductive conditions.

### Appendix 2: Asbestos

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<td>4</td>
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<td>Tremolite</td>
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### Appendix 3: Biocides

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<td>3</td>
<td>Azinophosmethyl</td>
<td>86-50-0</td>
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<td>Bromophos-ethyl</td>
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<td>5</td>
<td>Captafol</td>
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<td>Carbaryl</td>
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<td>10</td>
<td>Coumaphos</td>
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<td>11</td>
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<td>Cyhalothrin</td>
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### Appendix 3: Biocides

<table>
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<th>No.</th>
<th>Compound</th>
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<td>α-Hexachlorcyclohexane</td>
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<td>35</td>
<td>β-Hexachlorcyclohexane</td>
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<td>Mecroprop</td>
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<td>Methoxychlor</td>
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<td>2,4-D</td>
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Appendix 4: Carcinogenic Dyes

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<td>4 C.I. Basic Green 4 (Chloride)</td>
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<td>5 C.I. Basic Green 4 (Free)</td>
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<td>10309-95-2</td>
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<td>6 C.I. Basic Green 4 (Oxalate)</td>
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<td>18015-76-4</td>
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<td>7 C.I. Basic Red 9</td>
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<td>8 C.I Basic Violet 3</td>
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(*) Azo dye from which forbidden amine (4-amino azobenzene) can be split off under reductive conditions

Appendix 5: Chlorobenzenes and Chlorotoluenes

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Appendix 6: Chlorophenols

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<td>9 2,4,6-Trichlorophenol</td>
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<tr>
<td>10 3,4,5-Trichlorophenol</td>
<td>609-19-8</td>
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<tr>
<td>Appendix 7: Dioxin and Furans</td>
<td>CAS No.</td>
</tr>
<tr>
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<tr>
<td>1 1,2,3,7,8-pentachlorodibenzo-p-dioxin</td>
<td>40321-76-4</td>
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<tr>
<td>2 2,3,4,7,8-pentachlorodibenzofuran</td>
<td>57117-31-4</td>
</tr>
<tr>
<td>3 2,3,7,8-tetrachlorodibenzofuran</td>
<td>51207-31-9</td>
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<td>4 2,3,7,8-tetrachlorodibenzo-p-dioxin</td>
<td>1746-01-6</td>
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<td>5 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin</td>
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<td>6 1,2,3,6,7,8-hexachlorodibenzo-p-dioxin</td>
<td>57653-85-7</td>
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<tr>
<td>7 1,2,3,6,7,8-hexachlorodibenzofuran</td>
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<tr>
<td>8 1,2,3,7,8,9-hexachlorodibenzo-p-dioxin</td>
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<td>9 1,2,3,7,8,9-hexachlorodibenzofuran</td>
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<td>10 1,2,3,7,8-pentachlorodibenzofuran</td>
<td>57117-41-6</td>
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<td>11 2,3,4,6,7,8-hexachlorodibenzofuran</td>
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<td>12 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin</td>
<td>35822-46-9</td>
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<tr>
<td>13 1,2,3,4,6,7,8-heptachlorodibenzofuran</td>
<td>67562-39-4</td>
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<td>14 1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin</td>
<td>3268-87-9</td>
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<td>15 1,2,3,4,6,7,8,9-octachlorodibenzofuran</td>
<td>39001-02-0</td>
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<td>16 1,2,3,4,7,8,9-heptachlorodibenzo-p-dioxin</td>
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<td>17 1,2,3,7,8-pentabromodibenzofuran</td>
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<td>18 2,3,4,7-pentabromodibenzofuran</td>
<td>131166-92-2</td>
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<td>19 2,3,7,8-tetrabromodibenzofuran</td>
<td>67733-57-7</td>
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<td>20 2,3,7,8-tetrabromodibenzo-p-dioxin</td>
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<td>21 1,2,3,4,7,8-hexabromodibenzo-p-dioxin</td>
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<tr>
<td>22 1,2,3,6,7,8-hexabromodibenzo-p-dioxin</td>
<td>110999-45-6</td>
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<tr>
<td>23 1,2,3,7,8-pentabromodibenzofuran</td>
<td>107555-93-1</td>
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<td>24 1,2,3,7,8,9-hexabromodibenzo-p-dioxin</td>
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<thead>
<tr>
<th>Appendix 8: Flame Retardants</th>
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<tbody>
<tr>
<td>1  Bis-(2,3-dibromopropyl ether) of tetrabromobisphenol</td>
<td>BDBPT</td>
<td>21850-44-2</td>
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<tr>
<td>2  Bis-(2,3-dibromopropyl)phosphate</td>
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<td>5412-25-9</td>
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<tr>
<td>3 Decabromodiphenylether</td>
<td>DecaBDE</td>
<td>1163-19-5</td>
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<td>4 Heptabromodiphenylether</td>
<td>HeptaBDE</td>
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<tr>
<td>5 Hexabromocyclododecane</td>
<td>HBCDD</td>
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<td>6 Hexabromodiphenylether</td>
<td>HexaBDE</td>
<td>36483-60-0</td>
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<td>7 Octabromodiphenylether</td>
<td>OctaBDE</td>
<td>32536-52-0</td>
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<tr>
<td>8 Pentabromodiphenylether</td>
<td>PBDE</td>
<td>3263-81-9</td>
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<tr>
<td>9 Nonabromodiphenylethers</td>
<td>NonaBDE</td>
<td>various</td>
</tr>
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<td>10 Polybrominated Biphenyls (hexa-)</td>
<td>PBB</td>
<td>59536-65-1</td>
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<tr>
<td>11 Tetrabromobisphenol A</td>
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<td>12 Tetrabromodiphenylether</td>
<td>TetrabDE</td>
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<td>13 Tri(aziridin-1-yl)phosphine oxide</td>
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<tr>
<td>14 Tris-(chloroisopropyl)phosphate</td>
<td>TCPP</td>
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<td>15 Tris-(1,3-dichloro-2-propyl)phosphate</td>
<td>TDCPP</td>
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<td>16 Tris-(2-chloroethyl)phosphate</td>
<td>TCEP</td>
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<tr>
<td>17 Tris-(2,3-dibromopropyl)phosphate</td>
<td>TRIS - TDBPP</td>
<td>126-72-7</td>
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<tr>
<td>18 2,2'-Bis(bromomethyl)-1,3-propanediol</td>
<td>BBP</td>
<td>3296-90-0</td>
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<tr>
<td>19 2-Ethylhexyl-2,3,4,5-tetrabromobenzoate</td>
<td>TBBP</td>
<td>183658-27-7</td>
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<tr>
<td>20 Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate</td>
<td>TBPH</td>
<td>26040-51-7</td>
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<tr>
<td>21 Dibromobiphenyls</td>
<td>DIBB</td>
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</tr>
<tr>
<td>22 Tribromobiphenyls</td>
<td>TriBB</td>
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</tr>
<tr>
<td>23 Tetrabromobiphenyls</td>
<td>TetraBB</td>
<td>various</td>
</tr>
<tr>
<td>24 Pentabromobiphenyls</td>
<td>PentabBB</td>
<td>various</td>
</tr>
<tr>
<td>25 Heptabromobiphenyls</td>
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<td>various</td>
</tr>
<tr>
<td>26 Octabromobiphenyls</td>
<td>OctaBB</td>
<td>various</td>
</tr>
<tr>
<td>27 Nonabromobiphenyls</td>
<td>NonaBB</td>
<td>various</td>
</tr>
<tr>
<td>28 Decabromobiphenyl</td>
<td>DeacaBB</td>
<td>13654-09-6</td>
</tr>
<tr>
<td>Appendix 9: Forbidden Aryl amines</td>
<td>Index No.</td>
<td>CAS No.</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>--------------</td>
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<tr>
<td>1 Benzidine</td>
<td>612-042-00-2</td>
<td>92-87-5</td>
</tr>
<tr>
<td>2 Biphenyl-4-ylamino; 4-aminobiphenyl; xenylamine</td>
<td>612-072-00-6</td>
<td>92-67-1</td>
</tr>
<tr>
<td>3 o-aminoazotoluene; 4-amino-2,3-dimethylazobenzene; 4-o-tolylazo-toluidine</td>
<td>611-006-00-3</td>
<td>97-56-3</td>
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<tr>
<td>4 o-anisidine; 2-methoxylaniline</td>
<td>612-035-00-4</td>
<td>90-04-0</td>
</tr>
<tr>
<td>5 o-toluidine; 2-aminotoluene</td>
<td>612-091-00-X</td>
<td>95-53-4</td>
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<td>6 2,4-xylidine</td>
<td>95-68-1</td>
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<tr>
<td>7 2,4,5-trimethylaniline</td>
<td>137-17-7</td>
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</tr>
<tr>
<td>8 2,6-xylidine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 2-naphthylamine</td>
<td>612-022-00-3</td>
<td>91-59-8</td>
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<tr>
<td>10 3,3'-dichlorobenzidine; 3,3'-dichlorobiphenyl-4' 4'-ylenediamine</td>
<td>612-068-00-4</td>
<td>91-94-1</td>
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<tr>
<td>11 3,3'-dimethoxybenzidine; o-dianisidine</td>
<td>612-036-00-X</td>
<td>119-90-4</td>
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<td>12 3,3-dimethylbenzidine; 4,4'-bi-o-toluidine</td>
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<td>119-93-7</td>
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<td>13 4,4'-methyleneedianiline; 4,4'-diaminodiphenylmethane</td>
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<td>101-77-9</td>
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<td>14 4,4'-methylenei-d-o-toluidine</td>
<td>612-085-00-7</td>
<td>838-88-0</td>
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<td>15 4,4'-methylene-bis (2-chloro-aniline); 2,2'-dichloro-4,4'-methyleneedianiline</td>
<td>612-078-00-9</td>
<td>101-14-4</td>
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<tr>
<td>16 4,4'-oxydianiline</td>
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<tr>
<td>17 4,4'-thiodianiline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 4-amin azobenzene</td>
<td>611-008-00-4</td>
<td>60-09-3</td>
</tr>
<tr>
<td>19 4-chloroaniline</td>
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<tr>
<td>20 4-chloro-o-toluidine</td>
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<td>21 4-methoxy-m-phenylenediamine</td>
<td>615-05-4</td>
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<td>22 4-methyl-m-phenylenediamine</td>
<td>612-099-00-3</td>
<td>95-80-7</td>
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<td>23 5-nitro-o-toluidine</td>
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<tr>
<td>24 6-methoxy-m-toluidine; p-cresidine</td>
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<td></td>
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<td>25 chloro-o-toluidinium chloride</td>
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<td>26 2-Naphthylammoniumacetate</td>
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<td>27 4-methoxy-m-phenylene diammonium sulphate</td>
<td>39156-41-7</td>
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<td>28 2,4,5-trimethylaniline hydrochloride</td>
<td>21436-97-5</td>
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## Appendix 10: Heavy Metals (extractable)

### EN 71-3

<table>
<thead>
<tr>
<th>Short form</th>
<th>CAS No.</th>
<th>Unit</th>
<th>Category I</th>
<th>Category II</th>
<th>Category III</th>
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<tbody>
<tr>
<td><strong>Solid materials which may leave residues on the hands</strong></td>
<td><strong>Fluid or viscous materials which can be ingested or have skin contact</strong></td>
<td><strong>Solid materials which can be ingested by biting, tooth scraping, sucking or licking</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Aluminum</td>
<td>7429-90-5</td>
<td>mg/kg</td>
<td>2250</td>
<td>560</td>
<td>28130</td>
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<tr>
<td>2 Antimony</td>
<td>7440-36-0</td>
<td>mg/kg</td>
<td>45</td>
<td>11,3</td>
<td>560</td>
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<tr>
<td>3 Arsenic</td>
<td>7440-38-2</td>
<td>mg/kg</td>
<td>3,8</td>
<td>0,9</td>
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<tr>
<td>4 Barium</td>
<td>7440-39-3</td>
<td>mg/kg</td>
<td>1500</td>
<td>375</td>
<td>18750</td>
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<tr>
<td>5 Boron</td>
<td>7440-42-8</td>
<td>mg/kg</td>
<td>1200</td>
<td>300</td>
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<td>6 Cadmium</td>
<td>7440-43-9</td>
<td>mg/kg</td>
<td>1,3</td>
<td>0,3</td>
<td>17</td>
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<tr>
<td>7 Chromium III</td>
<td>7440-47-3</td>
<td>mg/kg</td>
<td>37,5</td>
<td>9,4</td>
<td>460</td>
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<td>8 Chromium VI</td>
<td>18540-29-9</td>
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<td>0,2</td>
<td>0,005</td>
<td>0,053</td>
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<td>9 Cobalt</td>
<td>7440-48-4</td>
<td>mg/kg</td>
<td>10,5</td>
<td>2,6</td>
<td>130</td>
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<tr>
<td>10 Copper</td>
<td>7440-50-8</td>
<td>mg/kg</td>
<td>622,5</td>
<td>156</td>
<td>7700</td>
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<td>11 Lead</td>
<td>7439-92-1</td>
<td>mg/kg</td>
<td>2,0</td>
<td>0,5</td>
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<tr>
<td>12 Manganese</td>
<td>7439-96-5</td>
<td>mg/kg</td>
<td>1200</td>
<td>300</td>
<td>15000</td>
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<td>13 Mercury</td>
<td>7439-97-6</td>
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<td>7,5</td>
<td>1,9</td>
<td>94</td>
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<td>14 Nickel</td>
<td>7440-02-0</td>
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<td>75</td>
<td>18,8</td>
<td>930</td>
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<td>15 Selenium</td>
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<td>9,4</td>
<td>460</td>
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<tr>
<td>16 Strontium</td>
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<td>17 Tin</td>
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<td>3750</td>
<td>180000</td>
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<td>18 Organic tin</td>
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<td>0,2</td>
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<td>19 Zinc</td>
<td>7440-66-6</td>
<td>mg/kg</td>
<td>3750</td>
<td>938</td>
<td>46000</td>
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### Appendix 11: Mercury compounds

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<tr>
<td>Phenylmercury acetate</td>
<td>62-38-4</td>
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<tr>
<td>Phenylmercury neodecanoate</td>
<td>26545-49-3</td>
</tr>
<tr>
<td>Phenylmercury octanoate</td>
<td>13864-38-5</td>
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<tr>
<td>Phenylmercury propionate</td>
<td>103-27-5</td>
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<tr>
<td>Phenylmercury 2-ethylhexanoate</td>
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### Appendix 12: Navy Blue

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<td>Navy Blue</td>
<td>118685-33-9</td>
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### Appendix 13: N-nitrosamines

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<td>N-nitrosodiethylamine</td>
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<td>N-nitrosodibutylamine</td>
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<tr>
<td>N-nitrosodimethylamine</td>
<td>62-75-9</td>
</tr>
<tr>
<td>N-nitrosodipropylamine</td>
<td>621-64-7</td>
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<tr>
<td>N-nitrosomorpholine</td>
<td>59-89-2</td>
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<tr>
<td>N-nitroso-N-ethylaniline</td>
<td>612-64-6</td>
</tr>
<tr>
<td>N-nitroso-N-methylaniline</td>
<td>614-00-6</td>
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<tr>
<td>N-nitrosopiperidine</td>
<td>100-75-4</td>
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<tr>
<td>N-nitrosopyrrolidine</td>
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### Appendix 14: Alkylphenolethoxylates (APEOs)

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<th>CAS No.</th>
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</thead>
<tbody>
<tr>
<td>Nonylphenol Ethoxylates NPEO (1,2)</td>
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</tr>
<tr>
<td>Nonylphenol Ethoxylates NPEO (3,18)</td>
<td>Various</td>
</tr>
<tr>
<td>Octylphenol Ethoxylates OPEO (1,2)</td>
<td>Various</td>
</tr>
<tr>
<td>Octylphenol Ethoxylates OPEO (3,18)</td>
<td>Various</td>
</tr>
<tr>
<td>Unbekanntes Farbmittel 94 (SIN list)</td>
<td>37205-87-1</td>
</tr>
<tr>
<td>4-Nonylphenol-polyethylene glycol</td>
<td>9016-45-9</td>
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<tr>
<td>Polyoxylethylbenzylpolyethylene glycol, branched (NPEs 3-18)</td>
<td>68412-54-4</td>
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<td>Polyoxylethyl (1,4-dibenzyl) ether (OPEs 3-18)</td>
<td>9002-93-1</td>
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<tr>
<td>4-Nonylphenol, branched, ethoxylated</td>
<td>127087-87-0</td>
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<td>4-Nonylphenol, ethoxylated</td>
<td>26027-38-3</td>
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<td>Octylphenolethoxylate, branched</td>
<td>68987-90-6</td>
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### Appendix 15: Alkylphenols (APs)

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</tr>
</thead>
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<tr>
<td>Nonylphenol</td>
<td>104-40-5</td>
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<td>Nonylphenol, branched</td>
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<td>Nonylphenol NP</td>
<td>Various</td>
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<td>Octylphenol, branched</td>
<td>27193-28-8</td>
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<tr>
<td>Octylphenol OP</td>
<td>Various</td>
</tr>
<tr>
<td>4-Nonylphenol (various, branched and linear)</td>
<td>25154-52-3</td>
</tr>
<tr>
<td>4-Nonylphenol, branched</td>
<td>84852-15-3</td>
</tr>
<tr>
<td>4-Octylphenol (linear)</td>
<td>1806-26-4</td>
</tr>
<tr>
<td>4-(1,1,3,3-Tetramethylbutyl)-phenol; 4-(1-Octyl)phenol</td>
<td>140-66-9</td>
</tr>
<tr>
<td>Appendix 16: Organotin compounds</td>
<td>Short form</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>1 Dibutyltin</td>
<td>DBT</td>
</tr>
<tr>
<td>2 Dimethyltin</td>
<td>DMT</td>
</tr>
<tr>
<td>3 Dioctyltin</td>
<td>DOT</td>
</tr>
<tr>
<td>4 Diphenyltin</td>
<td>DPhT</td>
</tr>
<tr>
<td>5 Dipropyltin</td>
<td>DPT</td>
</tr>
<tr>
<td>6 Monobutyltin</td>
<td>MBT</td>
</tr>
<tr>
<td>7 Monomethyltin</td>
<td>MMT</td>
</tr>
<tr>
<td>8 Monoctyltin</td>
<td>MOT</td>
</tr>
<tr>
<td>9 Monophenyltin</td>
<td>MPhT</td>
</tr>
<tr>
<td>10 Tetrabutyltin</td>
<td>TeBT</td>
</tr>
<tr>
<td>11 Tetraethyltin</td>
<td>TeET</td>
</tr>
<tr>
<td>12 Tetraoctyltin</td>
<td>TeOT</td>
</tr>
<tr>
<td>13 Tributyltin</td>
<td>TBT</td>
</tr>
<tr>
<td>14 Tributyltin oxide</td>
<td>TBTO</td>
</tr>
<tr>
<td>15 Tricyclohexyltin</td>
<td>TCyHT</td>
</tr>
<tr>
<td>16 Trimethyltin</td>
<td>TMT</td>
</tr>
<tr>
<td>17 Triocyltin</td>
<td>TOT</td>
</tr>
<tr>
<td>18 Triphenyltin</td>
<td>TPhT</td>
</tr>
<tr>
<td>19 Tripropyltin</td>
<td>TPT</td>
</tr>
</tbody>
</table>
### Appendix 17-1: PFOA and related substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perfluorooctanoic Acid</td>
<td>PFOA</td>
<td>335-67-1</td>
</tr>
<tr>
<td>Ammonium perfluorooctanoate</td>
<td>APFO</td>
<td>3825-26-1</td>
</tr>
<tr>
<td>Sodium perfluorooctanoate</td>
<td></td>
<td>335-95-5</td>
</tr>
<tr>
<td>Potassium perfluorooctanoate</td>
<td></td>
<td>2395-00-8</td>
</tr>
<tr>
<td>Perfluorooctanoic acid, silver salt</td>
<td></td>
<td>335-93-3</td>
</tr>
<tr>
<td>Ethanaminium, N,N,N-triethyl-, salt with perfluorooctanoic acid (1:1)</td>
<td></td>
<td>98241-25-9</td>
</tr>
</tbody>
</table>

**Salts (examples)**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:2 Fluorotelomer alcohol</td>
<td>8:2 FTOH</td>
<td>678-39-7</td>
</tr>
<tr>
<td>8:2 Fluorotelomer acrylate</td>
<td>8:2 FTAC</td>
<td>27905-45-9</td>
</tr>
<tr>
<td>8:2 Fluorotelomer methacrylate</td>
<td>8:2 FTMAC</td>
<td>1996-88-9</td>
</tr>
<tr>
<td>8:2 Fluorotelomer phosphate monoester</td>
<td>8:2 monoPAP</td>
<td>57678-03-2</td>
</tr>
<tr>
<td>8:2 Fluorotelomer phosphate diester</td>
<td>8:2 diPAP</td>
<td>678-41-1</td>
</tr>
<tr>
<td>Polyfluorinated silanes</td>
<td>C8-PFSi</td>
<td>various (i.e., 3102-79-2)</td>
</tr>
<tr>
<td>Perfluoroctyl phosphonic acid</td>
<td>C8-PFPa</td>
<td>40143-78-0</td>
</tr>
<tr>
<td>Polyfluorinated iodide</td>
<td>8:2 F1I</td>
<td>2043-53-0</td>
</tr>
<tr>
<td>Perfluoroctyl iodide</td>
<td>PFOI</td>
<td>507-63-1</td>
</tr>
<tr>
<td>Perfluorooctanoyl fluoride</td>
<td></td>
<td>335-66-0</td>
</tr>
<tr>
<td>Methyl perfluorooctanoate</td>
<td></td>
<td>376-27-2</td>
</tr>
<tr>
<td>Ethyl perfluorooctanoate</td>
<td></td>
<td>3108-24-5</td>
</tr>
</tbody>
</table>

**PFOA related substances**

Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds are defined in POP Regulation (2019/1021) as the following: perfluorooctanoic acid, including any of its branched isomers, its salts and PFOA-related compounds which are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C₇F₁₅)-C as one of the structural elements.

The following compounds are not included as PFOA-related compounds:

- CₙFₙ₋₁X, where X = F, Cl, Br;
- fluoropolymers that are covered by CF₃[CF₂]ₙ-R, where R=any group, n > 16;
- perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥ 8 perfluorinated carbons;
- perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 perfluorinated carbons.
### Appendix 17-2: PFOS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perfluorooctane sulfonic acid</td>
<td>335-67-1</td>
<td></td>
</tr>
<tr>
<td>Perfluorooctane sulfonamide</td>
<td>754-91-6</td>
<td></td>
</tr>
<tr>
<td>N-ethylperfluoro-1-octanesulfonamide</td>
<td>EIFOSA 4151-50-2</td>
<td></td>
</tr>
<tr>
<td>N-methylperfluoro-1-octanesulfonamide</td>
<td>MeFOSA 31506-32-8</td>
<td></td>
</tr>
<tr>
<td>2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol</td>
<td>EtFOSA 1691-99-2</td>
<td></td>
</tr>
<tr>
<td>2-(N-methylperfluoro-1-octanesulfonamido)-ethanol</td>
<td>N-MeFOSE 24448-09-7</td>
<td></td>
</tr>
<tr>
<td>Perfluorooctanesulfonyl fluoride</td>
<td>307-35-7</td>
<td></td>
</tr>
</tbody>
</table>

Perfluorooctane sulfonic acid and its derivatives (PFOS) are defined in POP Regulation (2019/1021) as the following:
- $C_8F_{17}SO_2X$, where $X =$ OH, Metal salt ($O-M^+$), halide, amide, and other derivatives including polymers.

### Appendix 17-3: Short chain PFAS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perfluorobutane sulfonic acid and its salts</td>
<td>PFBS 375-73-5</td>
<td></td>
</tr>
<tr>
<td>Perfluorobutane-1-sulphonate salts</td>
<td>various</td>
<td></td>
</tr>
<tr>
<td>Perfluorohexane-1-sulphonic acid and its salts</td>
<td>PFHxS 355-46-4</td>
<td></td>
</tr>
<tr>
<td>Perfluorohexane-1-sulphonate salts</td>
<td>various</td>
<td></td>
</tr>
<tr>
<td>Perfluoro-2-methyl-3-oxahexanoic acid, its salts and its acyl halides</td>
<td>13252-13-6</td>
<td></td>
</tr>
<tr>
<td>Perfluoro-2-methyl-3-oxahexanoate salts and halides</td>
<td>various</td>
<td></td>
</tr>
</tbody>
</table>

All perfluoroalkyl substances with short chain (less than six carbon atoms in the perfluoro section of the molecule) listed in the Candidate List of SVHC. The above list is not exhaustive.
<table>
<thead>
<tr>
<th>Appendix 17-4: Long chain PFAS</th>
<th>Substance</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Long chain perfluoralkyl acids (C₉-C₁₄)</strong></td>
<td>Perfluorononanoic acid</td>
<td>PFNA</td>
<td>375-95-1 / 21049-39-8 / 4149-60-4</td>
</tr>
<tr>
<td></td>
<td>Perfluorodecanoic acid</td>
<td>PFDA</td>
<td>335-76-2</td>
</tr>
<tr>
<td></td>
<td>Perfluoroundecanoic acid</td>
<td>PFDUdA</td>
<td>2058-94-8</td>
</tr>
<tr>
<td></td>
<td>Perfluorododecanoic acid</td>
<td>PFDoA</td>
<td>307-55-1</td>
</tr>
<tr>
<td></td>
<td>Perfluorotridecanoic acid</td>
<td>PETrA</td>
<td>72629-94-8</td>
</tr>
<tr>
<td></td>
<td>Perfluorotetradecanoic acid</td>
<td>PFTA</td>
<td>376-06-7</td>
</tr>
<tr>
<td><strong>Long chain perfluoralkyl related substances (C₉-C₁₄)</strong></td>
<td>1H,1H,2H,2H-Perfluoro-1-Dodecanol</td>
<td>10:2 FTOH</td>
<td>865-86-1</td>
</tr>
<tr>
<td></td>
<td>2H,2H,3H,3H-Perfluoroundecanoic acid</td>
<td>H4PFUnA</td>
<td>34598-33-9</td>
</tr>
<tr>
<td></td>
<td>1H,1H,2H,2H-Perfluorododecylacrylate</td>
<td>10:2 FTA</td>
<td>17741-60-5</td>
</tr>
<tr>
<td></td>
<td>Perfluoro-3,7-dimethyloctanoic Acid</td>
<td>PF-3,7-DMOA</td>
<td>172155-07-6</td>
</tr>
<tr>
<td></td>
<td>1H,1H,2H,2H-Perfluoroundecanesulfonate</td>
<td>10:2 FTS</td>
<td>108026-35-3</td>
</tr>
<tr>
<td></td>
<td>1H,1H,2H,2H-Perfluorododecan-sulfonate</td>
<td>8:2 FTS</td>
<td>39108-34-4</td>
</tr>
<tr>
<td></td>
<td>Perfluorononsulphonic acid</td>
<td>PFNS</td>
<td>35192-74-6 / 29359-39-5 / 17202-41-4</td>
</tr>
<tr>
<td></td>
<td>Perfluorododecansulphonic acid</td>
<td>PFDoS</td>
<td></td>
</tr>
</tbody>
</table>

C₉-C₁₄ linear and/or branched perfluorocarboxylic acids (C₉-C₁₄ PFCA), their salts and C₉-C₁₄ PFCA-related substances defined in REACH Regulation (1907/2006) Entry 68:
- Linear and branched perfluorocarboxylic acids of the formula CₙF₂ₙ₊₁-C(=O)OH where n = 8, 9, 10, 11, 12, or 13 (C₉-C₁₄ PFCA), including their salts, and any combinations thereof;
- Any C₉-C₁₄ PFCA-related substance having a perfluoro group with the formula CₙF₂ₙ₊₁-X where X = F, Cl, or Br, where n = 9, 10, 11, 12, 13 or 14, including any combinations thereof;
- Any C₉-C₁₄ PFCA-related substance having a perfluoro group with the formula CₙF₂ₙ₊₁-OX', where X'=any group, including their salts and any combinations thereof;
- Any C₉-C₁₄ PFCA-related substance having a perfluoro group with the formula CₙF₂ₙ₊₁-C=O where X=any group, including any combinations thereof.

The following substances are excluded from this designation:
- CₙF₂ₙ₊₁-X, where X = F, Cl, or Br where n = 9, 10, 11, 12, 13 or 14, including any combinations thereof;
- CₙF₂ₙ₊₁-OX where n> 13 and X=any group, including salts.
### Appendix 18: Phthalates

<table>
<thead>
<tr>
<th>No.</th>
<th>Compound Description</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Benzyl/Butylphthalate</td>
<td>BBP</td>
<td>85-68-7</td>
</tr>
<tr>
<td>2.</td>
<td>Dibutylphthalate</td>
<td>DBP</td>
<td>84-74-2</td>
</tr>
<tr>
<td>3.</td>
<td>Diisobutyl phthalate</td>
<td>DIBP</td>
<td>84-69-5</td>
</tr>
<tr>
<td>4.</td>
<td>Di-iso-decylphthalate</td>
<td>DIDP</td>
<td>26761-40-0</td>
</tr>
<tr>
<td>5.</td>
<td>Di-iso-nonylphthalate</td>
<td>DINP</td>
<td>28553-12-0</td>
</tr>
<tr>
<td>6.</td>
<td>Di-pentylphthalate (n-, iso- or mixed)</td>
<td>DPP</td>
<td>131-18-0</td>
</tr>
<tr>
<td>7.</td>
<td>Di-2-ethylhexylphthalate</td>
<td>DEHP</td>
<td>117-81-7</td>
</tr>
<tr>
<td>8.</td>
<td>Di-2-methoxyethylphthalate</td>
<td>DMEP</td>
<td>117-82-8</td>
</tr>
<tr>
<td>9.</td>
<td>Di-n-octylphthalate</td>
<td>DNOP</td>
<td>117-84-0</td>
</tr>
<tr>
<td>10.</td>
<td>Di-n-hexylphthalate</td>
<td>DHP-DnHP</td>
<td>84-75-3</td>
</tr>
<tr>
<td>11.</td>
<td>1,2-benzendicarboxlic acid, di C6-8 branched alkyl esters C7 rich</td>
<td>DIHP</td>
<td>71888-89-6</td>
</tr>
<tr>
<td>12.</td>
<td>1,2-benzendicarboxlic acid, di C7-11 branched and linear alkyl esters C7 rich</td>
<td>DHNUP</td>
<td>68515-42-4</td>
</tr>
</tbody>
</table>

### Appendix 19: Polychlorobiphenyls

<table>
<thead>
<tr>
<th>No.</th>
<th>Compound Description</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2,4,4'-trichlorobiphenyl (PCB 28)</td>
<td>7012-37-5</td>
</tr>
<tr>
<td>2.</td>
<td>2,2',5,5'-tetrachlorobiphenyl (PCB 52)</td>
<td>35693-99-3</td>
</tr>
<tr>
<td>3.</td>
<td>3,3',4,4'-tetrachlorobiphenyl (PCB 77)</td>
<td>32598-13-3</td>
</tr>
<tr>
<td>4.</td>
<td>3,4,4',5-tetrachlorobiphenyl (PCB 81)</td>
<td>70362-50-4</td>
</tr>
<tr>
<td>5.</td>
<td>2,2',4,5,5'-pentachlorobiphenyl (PCB 101)</td>
<td>37680-73-2</td>
</tr>
<tr>
<td>6.</td>
<td>2,3,3',4,4'-pentachlorobiphenyl (PCB 105)</td>
<td>32598-14-4</td>
</tr>
<tr>
<td>7.</td>
<td>2,3,4,4',5-pentachlorobiphenyl (PCB 114)</td>
<td>74472-37-0</td>
</tr>
<tr>
<td>8.</td>
<td>2,3',4,4',5-pentachlorobiphenyl (PCB 118)</td>
<td>31508-00-6</td>
</tr>
<tr>
<td>9.</td>
<td>2',3',4,4',5-pentachlorobiphenyl (PCB 123)</td>
<td>65510-44-3</td>
</tr>
<tr>
<td>10.</td>
<td>3,3',4,4',5-pentachlorobiphenyl (PCB 126)</td>
<td>57465-28-8</td>
</tr>
<tr>
<td>11.</td>
<td>2,2',3,4,4',5'-hexachlorobiphenyl (PCB 138)</td>
<td>35065-28-2</td>
</tr>
<tr>
<td>12.</td>
<td>2,2',4,4',5,5'-hexachlorobiphenyl (PCB 153)</td>
<td>35065-27-1</td>
</tr>
<tr>
<td>13.</td>
<td>2,3,3',4,4',5-hexachlorobiphenyl (PCB 156)</td>
<td>38380-08-4</td>
</tr>
<tr>
<td>14.</td>
<td>2,3,3',4,4',5'-hexachlorobiphenyl (PCB 157)</td>
<td>69782-90-7</td>
</tr>
<tr>
<td>15.</td>
<td>2',3',4,4',5,5'-hexachlorobiphenyl (PCB 167)</td>
<td>52663-72-6</td>
</tr>
<tr>
<td>16.</td>
<td>3,3',4,4',5,5'-hexachlorobiphenyl (PCB 169)</td>
<td>32774-16-6</td>
</tr>
<tr>
<td>17.</td>
<td>2,2',3,4,4',5,5'-heptachlorobiphenyl (PCB 180)</td>
<td>35065-29-3</td>
</tr>
<tr>
<td>18.</td>
<td>2,3',3',4,4',5,5'-heptachlorobiphenyl (PCB 189)</td>
<td>39635-31-9</td>
</tr>
</tbody>
</table>

### Appendix 20: Polychloronaphthalenes

<table>
<thead>
<tr>
<th>No.</th>
<th>Compound Description</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2-chloronaphthalene</td>
<td>91-58-7</td>
</tr>
<tr>
<td>2.</td>
<td>1,2-dichloronaphthalene</td>
<td>20250-69-3</td>
</tr>
<tr>
<td>3.</td>
<td>1,2,3-trichloronaphthalene</td>
<td>50402-52-3</td>
</tr>
<tr>
<td>4.</td>
<td>1,2,3,4-tetrachloronaphthalene</td>
<td>20020-02-4</td>
</tr>
<tr>
<td>5.</td>
<td>1,2,3,5,7-pentachloronaphthalene</td>
<td>53555-65-0</td>
</tr>
<tr>
<td>6.</td>
<td>1,2,3,4,5,6-hexachloronaphthalene</td>
<td>58877-88-6</td>
</tr>
<tr>
<td>7.</td>
<td>1,2,3,4,5,6,7-heptachloronaphthalene</td>
<td>58863-14-2</td>
</tr>
<tr>
<td>8.</td>
<td>Octachloronaphthalene</td>
<td>2234-13-1</td>
</tr>
</tbody>
</table>
### Appendix 21: Polycyclic Aromatic Hydrocarbons (IPA - PAH)

<table>
<thead>
<tr>
<th></th>
<th>Compound</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Acenaphthene</td>
<td></td>
<td>83-32-9</td>
</tr>
<tr>
<td>2</td>
<td>Acenaphthylene</td>
<td></td>
<td>208-96-8</td>
</tr>
<tr>
<td>3</td>
<td>Anthracene</td>
<td></td>
<td>120-12-7</td>
</tr>
<tr>
<td>4</td>
<td>Benzo[a]anthracene</td>
<td>BaA</td>
<td>56-55-3</td>
</tr>
<tr>
<td>5</td>
<td>Benzo[a]pyrene</td>
<td>BaP</td>
<td>50-32-8</td>
</tr>
<tr>
<td>6</td>
<td>Benzo[b]fluoranthene</td>
<td>BbFA</td>
<td>205-99-2</td>
</tr>
<tr>
<td>7</td>
<td>Benzo[e]pyrene</td>
<td>BeP</td>
<td>192-97-2</td>
</tr>
<tr>
<td>8</td>
<td>Benzo[ghi]perylene</td>
<td></td>
<td>191-24-2</td>
</tr>
<tr>
<td>9</td>
<td>Benzo[k]fluoranthene</td>
<td>BkFA</td>
<td>207-08-9</td>
</tr>
<tr>
<td>10</td>
<td>Benzo[j]fluoranthene</td>
<td>BjFA</td>
<td>205-82-3</td>
</tr>
<tr>
<td>11</td>
<td>Chrysene</td>
<td></td>
<td>218-01-9</td>
</tr>
<tr>
<td>12</td>
<td>Dibenzo[a,h]anthracene</td>
<td>DBAhA</td>
<td>53-70-3</td>
</tr>
<tr>
<td>13</td>
<td>Fluoranthene</td>
<td></td>
<td>206-44-0</td>
</tr>
<tr>
<td>14</td>
<td>Fluorene</td>
<td></td>
<td>86-73-7</td>
</tr>
<tr>
<td>15</td>
<td>Indeno[1,2,3-cd]pyrene</td>
<td></td>
<td>193-39-5</td>
</tr>
<tr>
<td>16</td>
<td>Naphthalene</td>
<td></td>
<td>91-20-3</td>
</tr>
<tr>
<td>17</td>
<td>Phenanthrene</td>
<td></td>
<td>85-01-8</td>
</tr>
<tr>
<td>18</td>
<td>Pyrene</td>
<td></td>
<td>129-00-0</td>
</tr>
</tbody>
</table>

### Appendix 22: Siloxanes

<table>
<thead>
<tr>
<th></th>
<th>Compound</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Octamethylcyclotetrasiloxane (D4)</td>
<td>556-67-2</td>
</tr>
<tr>
<td>2</td>
<td>Decamethyloclopentasiloxane (D5)</td>
<td>541-02-6</td>
</tr>
<tr>
<td>3</td>
<td>Dodecamethylcyclohexasiloxane (D6)</td>
<td>540-97-6</td>
</tr>
</tbody>
</table>
## Appendix 23: Solvents

<table>
<thead>
<tr>
<th>Chlorinated Solvents</th>
<th>Unit</th>
<th>Substance</th>
<th>CAS No.</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mg/kg</td>
<td>α-Chlorotoluene</td>
<td>100-44-7</td>
<td>≤ 1</td>
<td>DIN 54232 “In case of positivity the presence of α-Chlorotoluene must be confirmed with the LC-MS/MS method</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Methylene chloride</td>
<td>75-09-2</td>
<td>≤ 50 (sum)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Trichloroethylene</td>
<td>79-01-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>1,2 Dichloroethane</td>
<td>107-06-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>1,1,2 Trichloroethane</td>
<td>79-00-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Carbon Tetrachloride</td>
<td>56-23-5</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Chloroform</td>
<td>67-66-3</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Pentachloroethane</td>
<td>76-01-7</td>
<td>≤ 1000</td>
<td>GB 19340 “Extraction HS - SPME or Purge &amp; Trap and Analysis by GC-MS”</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Tetrachloroethylene</td>
<td>127-18-4</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>1,1-Dichloroethylene</td>
<td>75-35-4</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>1,1,1-Trichloroethane</td>
<td>71-55-6</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>1,1,1,2-Tetrachloroethane</td>
<td>630-20-6</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>1,1,2,2-Tetrachloroethane</td>
<td>79-34-5</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Benzene</td>
<td>71-43-2</td>
<td>≤ 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>≤ 1000</td>
<td>EPA 5021A + EPA 8260D</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>N-exane</td>
<td>110-54-3</td>
<td>≤ 150</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Toluyl disocyanate (free)</td>
<td>26471-62-5</td>
<td>≤ 10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Toluene</td>
<td>108-88-3</td>
<td>≤ 200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Acetophenone</td>
<td>98-86-2</td>
<td>≤ 50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>N-Methyl-2-pyrrolidone (NMP)</td>
<td>872-50-4</td>
<td>≤ 1000</td>
<td>GB 19340 “Extraction HS - SPME or Purge &amp; Trap and Analysis by GC-MS”</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>N,N-Dimethylacetamide (DMAc)</td>
<td>127-19-5</td>
<td>≤ 1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>2-Methoxyethanol</td>
<td>109-86-4</td>
<td>≤ 10</td>
<td>Solvent extraction and Analysis by GC-MS/LC-MS</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Dimethylformamide (DMF)</td>
<td>68-12-2</td>
<td>≤ 200</td>
<td>ISO/TS 16189</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>2-phenylpropan-2-ol</td>
<td>617-94-7</td>
<td>≤ 50</td>
<td>EPA 5021A + EPA 8260D</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Formamide</td>
<td>75-12-7</td>
<td>≤ 1000</td>
<td>Solvent extraction, GC-MS or LC-MS analysis</td>
</tr>
</tbody>
</table>

### Volatile Organic Compound (VOC)

<table>
<thead>
<tr>
<th>Other Solvents</th>
<th>Unit</th>
<th>Substance</th>
<th>CAS No.</th>
<th>Requirements</th>
<th>Test method reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mg/kg</td>
<td>N,N-Dimethylacetamide (DMAc)</td>
<td>127-19-5</td>
<td>≤ 1000</td>
<td>GB 19340 “Extraction HS - SPME or Purge &amp; Trap and Analysis by GC-MS”</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>2-Methoxyethanol</td>
<td>109-86-4</td>
<td>≤ 10</td>
<td>Solvent extraction and Analysis by GC-MS/LC-MS</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Dimethylformamide (DMF)</td>
<td>68-12-2</td>
<td>≤ 200</td>
<td>ISO/TS 16189</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>2-phenylpropan-2-ol</td>
<td>617-94-7</td>
<td>≤ 50</td>
<td>EPA 5021A + EPA 8260D</td>
</tr>
<tr>
<td></td>
<td>mg/kg</td>
<td>Formamide</td>
<td>75-12-7</td>
<td>≤ 1000</td>
<td>Solvent extraction, GC-MS or LC-MS analysis</td>
</tr>
</tbody>
</table>
### Appendix 24: UV-Stabilizers

<table>
<thead>
<tr>
<th></th>
<th>Structure</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2-(2H-Benzotriazol-2-yl)-4-(tert-buty1)-6-(sec-butyl)phenol</td>
<td>UV 350</td>
<td>36437-37-3</td>
</tr>
<tr>
<td>2</td>
<td>2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol</td>
<td>UV 328</td>
<td>25973-55-1</td>
</tr>
<tr>
<td>3</td>
<td>2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol</td>
<td>UV 327</td>
<td>3864-99-1</td>
</tr>
<tr>
<td>4</td>
<td>2-Benzotriazol-2-yl-4,6-di-tert-butylphenol</td>
<td>UV 320</td>
<td>3846-71-7</td>
</tr>
<tr>
<td>5</td>
<td>2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol</td>
<td>UV 329</td>
<td>3147-75-9</td>
</tr>
<tr>
<td>6</td>
<td>Bumetrizole</td>
<td>UV 326</td>
<td>3896-11-5</td>
</tr>
</tbody>
</table>

### Appendix 25: Bisphenols

<table>
<thead>
<tr>
<th></th>
<th>Structure</th>
<th>Short form</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bisphenol-A (BPA)</td>
<td>BPA</td>
<td>80-05-7</td>
</tr>
<tr>
<td>2</td>
<td>Bisphenol S (BPS)</td>
<td>BPS</td>
<td>80-09-1</td>
</tr>
<tr>
<td>3</td>
<td>Bisphenol B (BPB)</td>
<td>BPB</td>
<td>77-40-7</td>
</tr>
<tr>
<td>4</td>
<td>Bisphenol F (BPF)</td>
<td>BPF</td>
<td>620-92-8</td>
</tr>
<tr>
<td>5</td>
<td>Bisphenol AF (BPAF)</td>
<td>BPAF</td>
<td>1478-61-1</td>
</tr>
</tbody>
</table>