



## Swiss chemicals legislation

### Chemical Risk Reduction Ordinance

#### Restrictions on use

The following table provides a summary of the prohibitions and restrictions on use specified in Annexes 1 and 2 of the Ordinance on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles (Chemical Risk Reduction Ordinance, ORRChem), which professional and commercial or private users are required to comply with regarding the use of certain substances, preparations and articles.

The table also indicates any personal or professional qualifications required, as well as the need for authorisation for the use of certain groups of substances and preparations. In addition, consumers are required to note any information and follow any instructions provided by manufacturers and traders (e.g. labels, instructions for use, bring-back obligations).

With regard to the handling of chemicals, relevant aids to enforcement produced by the FOEN as a supervisory or technical authority and guidance issued by the FOEN as an enforcement authority can be found in the Chemical section of the [FOEN website](#) (Topics > Chemicals > Information for specialist).

This document (current as of October 2022) is provided for information purposes only, while the original text of the OCRR is legally binding.

<b>Substance/Preparation/Article</b>	<b>Regulations</b>	<b>Exemptions/Transitional provisions</b>
1-Bromopropane (n-propyl bromide) (CAS no. 71-55-6)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b>  With effect from 2 November 2023 use of 1-Bromopropane, and preparations containing 1-Bromopropane, is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"
1,1-dichloroethylene (CAS no. 75-35-4) 1,1,1,2-tetrachloroethane (CAS no. 630-20-6) 1,1,2-trichloroethane (CAS no. 79-00-5) 1,1,2,2-tetrachloroethane (CAS no. 79-34-5)	<b>Annex 1.3 (Chlorinated aliphatic hydrocarbons)</b>  Use of these substances, and substances and preparations containing 0.1% or more of these substances, is prohibited	Use in closed systems in industrial processes and for analysis and research purposes is permitted; the substances may also be used in medical products and cosmetics (subject to the provisions of medical product and food legislation)
1,1,1-trichloroethane (CAS no. 71-55-6)	See "Ozone depleting substances"	
1,2-Dichloroethane (EDC, CAS no: 107-06-2)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b>  With effect from 1 February 2022 use of EDC, and preparations containing EDC, is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"
1,4-dichlorobenzene (CAS no. 106-46-7)	<b>Annex 2.1 (Cleaning and deodorising agents)</b>  The use of dichlorobenzene as a deodorising agent and air freshener intended for use in toilets, private households, offices and other publicly accessible interiors, is prohibited	
2-naphthylamine (CAS no. 91-59-8) and its salts	<b>Annex 1.13 (Nitroaromatics and aromatic amines)</b>  Use of 2-naphthylamine, and substances and preparations containing 0.1% or more 2-naphthylamine, is prohibited	Use for analysis and research purposes
2,4 dinitrotoluene (2,4-DNT, CAS no. 121-14-2)	<b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b>  Use of this substance and preparations containing this substance is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
2,2'-Dichloro-4,4'-methylenedianiline (MOCA, CAS no: 101-14-4)	<p><b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b></p> <p>With effect from 1 February 2022 use of MOCA, and preparations containing MOCA, is prohibited</p>	See "Substances in accordance with Annex XIV, REACH Regulation"
<p>2,4,5-trichlorophenoxyacetic acid and its salts</p> <p>2,4,5-trichlorophenoxyacetyl compounds</p> <p>2-(2,4,5-trichlorophenoxy) propionic acid and its salts</p> <p>2-(2,4,5-trichlorophenoxy) propionyl compounds</p>	<p><b>Annex 1.2 (Halogenated organic compounds)</b></p> <p>Use of these substances, and of substances and preparations containing these substances, is prohibited</p>	Use for analysis and research purposes
<p>4-Aminobiphenyl (CAS no. 92-67-1)</p> <p>4-Nitrobiphenyl (CAS no. 92-93-3)</p>	<p><b>Annex 1.13</b></p> <p>Use of these substances, and of substances and preparations containing 0.1% or more of these substances, is prohibited</p>	Use for analysis and research purposes
<p>4,4'-diaminodiphenyl methane (MDA, CAS no. 101-77-9)</p> <p>Formaldehyde, oligomer reaction products with aniline (Technical MDA, CAS no: 25214-70-4)</p>	<p><b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b></p> <p>Use of MDA, and preparations containing MDA, is prohibited. With effect from 1 November 2021 the use of technical MDA, and preparations containing technical MDA, is also prohibited</p>	See "Substances in accordance with Annex XIV, REACH Regulation"
<p>5-sec-Butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1],</p> <p>5-sec-Butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]</p> <p>(includes each individual stereoisomer of [1] and [2] or any combination thereof)</p>	<p><b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b></p> <p>With effect from 2 May 2024 use of these substances, and preparations containing them, is prohibited</p>	See "Substances in accordance with Annex XIV, REACH Regulation"

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5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene, CAS no. 81-15-2)	<b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b>  Use of this substance and preparations containing this substance is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"
Acrylamide (CAS no. 79-06-1)	<b>Annex 2.9 (Plastics, their monomers and additives)</b>  The use of acrylamide and substances and preparations containing 0.1% or more acrylamide for sealing purposes (injection, grouting, jointing or casting) is prohibited	
Acids	See "Aerosol dispensers"	
Aerosol dispensers	<b>Annex 2.12 (Aerosol dispensers)</b>  Use of aerosol dispensers is prohibited if they need to be labelled as follows on account of their components (e.g. bases, acids, solvents): -H330 (potentially fatal if inhaled) -H331 (toxic if inhaled)	
Aldrin (CAS no. 309-00-2)	<b>Annex 1.1 (Persistent organic pollutants)</b>  Use of aldrin, and of substances and preparations containing aldrin, is prohibited	Use for analysis and research purposes
Alkanes, C <sub>10-13</sub> , chloro- (SCCPs)	<b>Annex 1.1 (Persistent organic pollutants)</b>  Use of SCCPs, and of substances and preparations containing 0.1% or more of SCCPs, is prohibited	Use for analysis and research purposes
Algae and moss remover	See "Biocidal products" and "Plant protection products"	

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Alkylphenols (AP) and their ethoxylates APEs) - Octylphenol (OP) (C <sub>14</sub> H <sub>22</sub> O) and its ethoxylates (OPEs) - Nonylphenol (NP) (C <sub>15</sub> H <sub>24</sub> O) and its ethoxylates (NPEs)	<b>Annex 1.8 (Octylphenol, nonylphenol and their ethoxylates)</b>  It is prohibited to use the following product types if they contain 0.1% or more AP or APEs: - Laundry detergents - Cleaning products which are released into waste water - Cosmetic products - Textile processing agents - Leather processing agents - Metalworking agents - Auxiliaries for the manufacture of pulp and paper - Agricultural teat dips containing these substances as emulsifiers - Biocide products and plant protection products containing these substances as co-formulants	<ul style="list-style-type: none"> <li>• Spermicides</li> <li>• Textile and leather processing agents:               <ul style="list-style-type: none"> <li>- If processing does not result in release of the substances into waste water</li> <li>- If, in installations for special treatment, such as sheepskin degreasing, process water is pretreated to remove the organic fraction completely prior to biological waste water treatment</li> </ul> </li> <li>• Metalworking agents for use in controlled closed systems where the washing liquid is recycled or incinerated</li> <li>• NPEs contained as co-formulants in biocide products or plant protection products with marketing authorisation granted before 1 August 2005 may continue to be used until the expiry of this authorisation</li> </ul>
Alkylphenol ethoxylates (APEs) - Nonylphenol ethoxylates (NPEs) (4-Nonylphenol, branched und linear, ethoxylated) - Octylphenol ethoxylates (OPEs) (4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b>  With effect from 2 May 2024 use of these APEs, and preparations containing these APEs, is prohibited	See “Substances in accordance with Annex XIV, REACH Regulation”
Amber fragrance	See “5-sec-Butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-Butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl- 1,3-dioxane [2]” (includes each individual stereoisomer of [1] and [2] or any combination thereof)	
Ammonium salts, inorganic	<b>Annex 1.9 (Flame retardants)</b>  It is prohibited to use inorganic ammonium salts in cellulose insulation mixtures or cellulose insulation unless the emission of ammonia from those mixtures or articles results in a concentration of less than	Cellulose insulation mixtures intended to be used solely for the production of cellulose insulation articles for which compliance with the emission limit will be demonstrated

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	3 ppm by volume (2.12 mg/m <sup>3</sup> ) under test conditions according to Technical Specification CEN/TS 16516	
Anthracene oil (CAS no: 90640-80-5)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b>  With effect from 2 February 2024 use of anthracene oil, and preparations containing anthracene oil, is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"
Aromatic amines	<b>Annex 1.13 (Nitroaromatics and aromatic amines)</b>  Azo dyes which are used in textiles and leather goods, and which can release aromatic amines upon reductive cleavage, are subject to the provisions of the Foodstuffs and Utility Articles Ordinance (SR 817.02)	
Arsenic (As) and arsenic compounds	<b>Annex 2.4 (Biocidal products)</b>  Use of the following products containing arsenic is prohibited: products used to protect industrial water, paints and varnishes, rodenticides and antifouling products (underwater coatings)	Use in research and development
Arsenic compounds - Arsenic acid (CAS no: 7778-39-4) - Diarsenic trioxide (CAS no. 1327-53-3) - Diarsenic pentaoxide (CAS no. 1303-28-2)	<b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b>  Use of arsenic oxides and preparations containing them is prohibited. With effect from 1 November 2021 the use of arsenic acid, and preparations containing this substance, is also prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"
Asbestos: - Actinolite (CAS no. 77536-66-4) - Amosite (CAS no. 12172-73-5) - Anthophyllite (CAS no. 77536-67-5) - Chrysotile (CAS no. 12001-29-5) - Crocidolite (CAS no. 12001-28-4)	<b>Annex 1.6 (Asbestos)</b>  Use of asbestos, and of preparations and articles containing asbestos, is prohibited; information and instructions (special labelling, instructions on use) provided by the manufacturer for preparations and articles containing asbestos are to be noted and followed	<ul style="list-style-type: none"> <li>• Asbestos-containing preparations and articles already in use before 1 June 2019</li> <li>• Until 30 June 2025 use of asbestos for the manufacture of diaphragms which are allowed to be used until that date in existing electrolysis installations</li> </ul>

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- Tremolite (CAS no. 77536-68-6)		<ul style="list-style-type: none"> <li>• Until 30 June 2025 use of diaphragms containing asbestos in existing electrolysis installations</li> <li>• On receipt of a justified request, further exemptions are possible under certain conditions</li> </ul>
Azo dyes	See “Aromatic amines” and “Blue colourant”	
Bases	See “Aerosol dispensers”	
Batteries Bring-back obligations	<p><b>Annex 2.15 (Batteries)</b></p> <p>Consumers must hand over spent batteries to a trader or manufacturer with a take-back obligation or dispose of them via a battery collection scheme or collection point</p>	Automotive batteries may also be submitted to disposal companies that are entitled to receive batteries in accordance with the Ordinance on the Transport of Waste (SR 814.610), provided that the disposal companies agree to accept them
Benzene (CAS no. 71-43-2)	<p><b>Annex 1.12 (Benzene)</b></p> <p>Use of benzene, and of substances and preparations containing 0.1% or more benzene, is prohibited; for petrol, the provisions of the Ordinance on Air Pollution Control (OAPC, SR 814.318.142.1) apply</p>	Use in closed systems in industrial processes, and for analysis and research purposes, is permitted
Benzidine (CAS no. 92-87-5)	<p><b>Annex 1.13 (Nitroaromatics and aromatic amines)</b></p> <p>Use of benzidine, and of substances and preparations containing 0.1% or more benzidine, is prohibited</p>	Use for analysis and research purposes
Biocidal products to control algae and moss	<p><b>Annex 2.4 No. 4<sup>bis</sup> (Biocidal products to control algae and moss)</b></p> <p>With effect from 1 December 2020 it is prohibited to use biocidal products to control algae and moss:</p> <ul style="list-style-type: none"> <li>• on roofs, terraces and storage sites</li> <li>• on or alongside roads, paths and squares</li> <li>• on embankments and verges alongside roads and railways</li> </ul>	

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Bisphenols - Bisphenol A (BPA, CAS no 80-05-7) - Bisphenol S (BPS, CAS no 80-09-1)	<b>Annex 1.10 (CMR substances)</b> It is prohibited to use thermal paper containing BPA or BPS in a concentration of 0.02% or more	Until 31 May 2025 thermal paper used for special applications that require additional technical specifications. These include the following applications in particular: <ul style="list-style-type: none"> <li>• applications in the fields of medicine and laboratories</li> <li>• self-adhesive labels</li> <li>• admission and travel tickets with additional functions</li> </ul>
“Blue colourant” is the azo dye with the components: - disodium-(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)-chromate(1-) (CAS no. 118685-33-9) and - trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromate(1-) (molecular formula: C <sub>46</sub> H <sub>30</sub> CrN <sub>10</sub> O <sub>20</sub> S <sub>2</sub> .3Na)	<b>Annex 1.13 (Azo dyes)</b> Use of “blue colourant”, and of substances and preparations containing 0.1% or more of “blue colourant”, for dyeing textiles or leather goods, is prohibited	
Bromochloromethane (CAS no. 74-97-5) Bromomethane (CAS no. 74-83-9)	See “Ozone depleting substances”	
Brominated diphenyl ethers - Tetrabromodiphenyl ether with molecular formula C <sub>12</sub> H <sub>6</sub> Br <sub>4</sub> O - Pentabromodiphenyl ether with molecular formula C <sub>12</sub> H <sub>5</sub> Br <sub>5</sub> O - Hexabromodiphenyl ether with molecular formula C <sub>12</sub> H <sub>4</sub> Br <sub>6</sub> O - Heptabromodiphenyl ether with molecular formula C <sub>12</sub> H <sub>3</sub> Br <sub>7</sub> O	<b>Annex 1.1 (Persistent organic pollutants)</b> The use of brominated diphenyl ethers and substances and preparations containing more than 0.001% brominated diphenyl ethers is prohibited	<ul style="list-style-type: none"> <li>• Use of substances and preparations that have been partially or fully produced from recycled materials or from materials produced from recycled waste, if their content of brominated diphenyl ethers does not exceed 0.1%</li> <li>• Use for analysis and research purposes</li> </ul>
Brominated diphenyl ethers - Octabromodiphenyl ether with molecular formula C <sub>12</sub> H <sub>2</sub> Br <sub>10</sub> O	See “Octabromodiphenyl ether (octaBDE)” and “Decabromodiphenyl ether (decaBDE)”	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
- Decabromodiphenyl ether with molecular formula C <sub>12</sub> Br <sub>10</sub> O	<p><b>Annex 2.14 Capacitors and transformers</b></p> <p>It is prohibited to use pollutant-containing capacitors (total weight in excess of 1 kg) and transformers if they contain:</p> <ul style="list-style-type: none"> <li>• halogenated aromatic substances such as PCBs, halogenated diarylalkanes or halogenated benzenes; or</li> <li>• substances or preparations containing more than 500 ppm monohalogenated or more than 50 ppm polyhalogenated aromatic substances</li> </ul> <p>Capacitors manufactured in or before 1982 are deemed to contain pollutants</p>	
Carbon tetrachloride (CAS no. 56-23-5)	See "Ozone depleting substances"	
Cement	<p><b>Annex 2.16 No. 1 (Chromium(VI) in cements)</b></p> <p>It is prohibited to use cement and cement-containing preparations which contain, when hydrated, more than 0.0002% soluble chromium(VI) of the total dry weight of the cement</p>	The prohibition is not applicable to use in controlled, closed and totally automated processes, and in processes in which cement and cement-containing preparations are handled solely by machines and in which there is no possibility of contact with the skin
CFCs: halogenated chlorofluorocarbons	See "Ozone depleting substances"	
Chlordane (CAS no. 57-74-9) Chlordecone (kepone, CAS no. 143-50-0)	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of these substances, and of substances and preparations containing these substances, is prohibited</p>	Use for analysis and research purposes
Chlorinated paraffins, short-chain (SCCPs)	See "Alkanes, C <sub>10-13</sub> , chloro-"	
Chloroform (CAS no. 67-66-3)	<p><b>Annex 1.3 (Chlorinated aliphatic hydrocarbons)</b></p> <p>Use of chloroform, and of substances and preparations containing 0.1% or more chloroform, is prohibited</p>	Use in closed systems in industrial processes, and for analysis and research, is permitted. Chloroform may also be used in medical products and cosmetics (subject to the

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Chromium(VI), chromate - Chromium trioxide (CAS no: 1333-82-0) - Acids formed from chromium trioxide, and their oligomers - Sodium dichromate (CAS no: 7789-12-0; 10588-01-9) - Potassium dichromate (CAS no: 7778-50-9) - Ammonium dichromate (CAS no: 7789-09-5) - Potassium chromate (CAS no: 7789-00-6) - Sodium chromate (CAS no: 7775-11-3)	<b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b>  With effect from 1 June 2021 it is prohibited to use these substances, and preparations containing these substances	provisions of medical product and food legislation); on receipt of a justified request, temporary exemptions may be granted for small quantities (< 20 litres per annum)  <ul style="list-style-type: none"> <li>• Uses of chromium trioxide (CAS no: 1333-82-0), acids formed from chromium trioxide, and their oligomers and sodium dichromate (CAS no: 7789-12-0; 10588-01-9) in processes in which the end products do not contain chromium in hexavalent form</li> <li>• For further exemptions see “Substances in accordance with Annex XIV, REACH Regulation”</li> </ul>
Chromium(VI), chromate - Dichromium tris(chromate) (CAS no: 24613-89-6) - Strontium chromate (CAS no: 7789-06-2) - Zinc potassium chromate (CAS no: 11103-86-9) - Pentazinc chromate octahydroxide (CAS no: 49663-84-5)	<b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b>  With effect from 1 April 2023 it is prohibited to use these substances, and preparations containing these substances	See “Substances in accordance with Annex XIV, REACH Regulation”
Chromium(VI), chromate	See “Cement”	
Chromium(VI), chromate	See “Lead compounds”	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
C.I. pigment yellow 34 C.I. pigment red 104	See "Lead compounds"	
Coal tar pitch (high temp.) (CAS no: 65996-93-2)	<p><b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b></p> <p>With effect from 2 February 2024 use of coal tar pitch, and preparations containing coal tar pitch, is prohibited</p>	See "Substances in accordance with Annex XIV, REACH Regulation"
Decabromodiphenyl ether (decaBDE)	<p><b>Annex 1.9 (Flame retardants)</b></p> <p>With effect from 1 December 2019 the use of decaBDE, and substances and preparations containing decaBDE, is prohibited</p>	<p>The prohibition does not apply to use for analysis and re-search purposes, nor to use of decaBDE, and substances and preparations containing decaBDE, which are needed to manufacture the following items:</p> <ul style="list-style-type: none"> <li>• Components for aircraft manufactured until 2 March 2027, for which type approval has been received before 1 December 2022, and components for the repair and maintenance of such aircraft</li> <li>• Components for the repair and maintenance of motor vehicles, where those components are intended for following applications: <ul style="list-style-type: none"> <li>- Powertrain and under-hood applications</li> <li>- Fuel system applications</li> <li>- Pyrotechnical devices and applications affected by pyrotechnical devices</li> <li>- Suspension applications</li> <li>- Reinforced plastics and textiles</li> <li>- Under the dashboard applications</li> <li>- Electric and electronic equipment</li> <li>- Interior applications</li> </ul> </li> </ul>

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<p>De-icing products, permissible:</p> <ul style="list-style-type: none"> <li>- sodium chloride, calcium chloride or magnesium chloride</li> <li>- urea</li> <li>- biodegradable lower alcohols</li> <li>- sodium formate or potassium formate</li> <li>- sodium acetate or potassium acetate</li> <li>- molasses containing carbohydrates from sugar production and equivalent products from other processes</li> </ul>	<p><b>Annex 2.7 (De-icing agents)</b></p> <ul style="list-style-type: none"> <li>• De-icing agents may not be used if they contain other thawing substances</li> <li>• De-icing agents that contain urea, biodegradable lower alcohols or sodium acetate or potassium acetate may only be used at airports</li> <li>• De-icing agents that contain sodium formate or potassium formate may only be used at airports and on footpaths that border on areas of greenery</li> <li>• De-icing agents that contain molasses containing carbohydrates from sugar production may only be used as brine additives and as follows: <ul style="list-style-type: none"> <li>- On motorways/national roads, if the brine is spread mechanically using brine or pre-wetted salt technology, and its dissolved organic carbon (DOC) is readily biodegradable and its pre-wetted salt content does not exceed 20 grams DOC per kilogram by mass when using brine technology, and 10 grams DOC per kilogram by mass when using pre-wetted salt technology</li> <li>- On other road surfaces, if the brine is spread mechanically using pre-wetted salt technology, and, its dissolved organic carbon (DOC) is readily biodegradable and its pre-wetted salt content does not exceed 10 grams DOC per kilogram by mass</li> </ul> </li> <li>• De-icing agents may only be used for public snow and ice clearance purposes if equipment is used during mechanical distribution that distributes an even quantity of the de-icing agent over the surface</li> <li>• De-icing products are only to be used by public services for winter road treatment for preventive purposes in critical weather conditions and only on motorways and at exposed sites</li> </ul>	<p>Upon request, exemptions for other thawing substances than those cited may be considered subject to suitability tests</p>
Deodorisers	See "1,4-dichlorobenzene"	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Detergents (laundry detergents and cleaning products)	<b>Annex 2.1 and 2.2 (Laundry detergents and cleaning products)</b> <ul style="list-style-type: none"> <li>• It is prohibited to use surfactants which are not readily biodegradable in laundry detergents and cleaning agents produced for own use</li> <li>• Information and directions in the manufacturer's instructions are to be noted and complied with</li> </ul>	
Dichlorodiphenyldichloroethane (DDD) Dichlorodiphenyldichloroethylene (DDE)	<b>Annex 1.2 (Halogenated organic compounds)</b> Use of these substances, and of substances and preparations containing these substances, is prohibited	Use for analysis and research purposes
Dichlorodiphenyltrichloroethane (DDT)	<b>Annex 1.1 (Persistent organic pollutants)</b> Use of DDT, and of substances and preparations containing DDT, is prohibited	Use for analysis and research purposes
Dichloromethane (methylene chloride)	<b>Annex 2.1 and 2.2 (Laundry detergents and cleaning products)</b> It is prohibited to use liquid halogenated organic substances in laundry detergents and cleaning agents produced for own use	Agents not released into waste water
Dichloromethane (methylene chloride)	<b>Annex 2.3 (Solvents)</b> The professional or commercial use of paint strippers containing 0.1% or more dichloromethane outside an industrial plant is prohibited	
Dicofol (CAS no. 115-32-2)	<b>Annex 1.1 (Persistent organic pollutants)</b> Use of dicofol, and of substances and preparations containing dicofol, is prohibited	Use for analysis and research purposes
Dieldrin (CAS no. 60-57-1)	<b>Annex 1.1 (Persistent organic pollutants)</b> Use of dieldrin, and of substances and preparations containing dieldrin, is prohibited	Use for analysis and research purposes

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Di- $\mu$ -oxo-di-n-butylstanniohydroxyborane (DBB, CAS no. 75113-37-0)	<p><b>Annex 1.14 (Organostannic compounds)</b></p> <p>Use of DBB, and of substances and preparations containing 0.1% or more DBB, is prohibited</p>	Use is permitted for analysis and research purposes, and where a conversion process produces a finished product containing less than 0.1% DBB
Disinfectants for use in public swimming pools	<p>These disinfectants are only to be used on a professional or commercial basis by persons with an appropriate certificate or with a qualification regarded as equivalent or who are acting under the supervision of such persons</p>	
Endosulfan (CAS no. 115-29-7) and its isomers (CAS no. 959-98-8 and CAS no. 33213-65-9)	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of endosulfan, and of substances and preparations containing endosulfan, is prohibited</p>	Analysis and research purposes
Endrin (CAS no. 72-20-8)	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of endrin, and of substances and preparations containing endrin, is prohibited</p>	Use for analysis and research purposes
Extender oils	<p><b>Annex 2.9 (Plastics and additives)</b></p> <p>It is prohibited to use extender oils for the manufacture of tyres or parts of tyres if these oils contain more than 1 mg/kg of benzo[a]pyrene or more than 10 mg/kg of the sum of the following polycyclic aromatic hydrocarbons:</p> <ul style="list-style-type: none"> <li>- benzo[a]pyrene (CAS no. 50-32-8)</li> <li>- benzo[e]pyrene (CAS no. 192-97-2)</li> <li>- benzo[a]anthracene (CAS no. 56-55-3)</li> <li>- chrysene (CAS no. 218-01-9)</li> <li>- benzo[b]fluoranthene (CAS no. 205-99-2)</li> <li>- benzo[j]fluoranthene (CAS no. 205-82-3)</li> <li>- benzo[k]fluoranthene (CAS no. 207-08-9)</li> <li>- dibenzo[a,h]anthracene (CAS no. 53-70-3)</li> </ul>	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Extinguishing agents	See "Substances stable in atmosphere", "Ozone depleting substances", "Perfluorooctane sulfonates (PFOS)" and "Perfluorooctanoic acid (PFOA), its salts and any PFOA-related substance"	
FCs: fluorocarbons	See "Substances stable in atmosphere"	
Fertilisers	<p><b>Annex 2.6 No. 3.2.1</b> <b>Restrictions on use of nitrogenous and liquid fertilisers</b></p> <ul style="list-style-type: none"> <li>• Use of nitrogenous fertilisers is only permitted during periods when plants can absorb nitrogen; if the particular crop production conditions require fertiliser treatment outside these periods, use of such fertilisers is only permitted if they pose no risk to water quality</li> <li>• Use of liquid fertilisers is only permitted if the soil has the necessary absorption capacity; in particular, they must not be used when the soil is waterlogged, frozen, snow-covered or dried-out</li> </ul>	
Fertilisers	<p><b>Annex 2.6 No. 3.2.2</b> <b>Restrictions on use of compost and digestates</b></p> <ul style="list-style-type: none"> <li>• Over a 3-year period, up to 25 tonnes of compost or solid digestate (in relation to dry matter) may be applied per hectare, or 200 m<sup>3</sup> liquid digestate per hectare, provided that these quantities do not exceed the nitrogen and phosphorus requirements of the plants</li> <li>• It is prohibited to use, over a 10-year period, more than 100 tonnes of organic or organic mineral soil improvement agents, compost or solid digestate per hectare</li> </ul>	
Fertilisers	<p><b>Annex 2.6 No. 3.3</b> <b>Prohibitions on fertiliser use</b></p> <ul style="list-style-type: none"> <li>• Fertilisers are not to be used: <ul style="list-style-type: none"> <li>- In nature reserves, reed beds and mires</li> </ul> </li> </ul>	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
	<ul style="list-style-type: none"> <li>- In hedges and copses and in a 3-m-wide strip alongside hedges and copses</li> <li>- In bodies of water and in a 3-metre-wide strip alongside bodies of water</li> <li>- In groundwater protection zone S1 (except for cuttings left on the ground)</li> <li>• Liquid farm manure and recycling fertilisers are not to be used in groundwater protection zone S2</li> </ul> <p>Cantonal authorities may specify further restrictions for the areas of contribution <math>Z_u</math> and <math>Z_o</math> if this is required to ensure water protection</p> <p>In addition, use of the following is prohibited:</p> <ul style="list-style-type: none"> <li>• Sewage sludge</li> <li>• Fertilisers in forests and in a 3-metre-wide strip alongside the stand of trees</li> </ul>	<ul style="list-style-type: none"> <li>• Under certain conditions, cantonal authorities may grant exemptions for the use of liquid farm manure and recycling fertilisers in zone S2, provided it is ensured that no pathogenic microorganisms can enter the groundwater well or recharge facility</li> <li>• Cantonal authorities may authorise the use of certain fertilisers in forest nurseries, for reforestation or sowing, for the development of plant cover on forestry road verges and for bioengineering, for scientific trials and on wooded pastures</li> </ul>
Foams	See "Substances stable in atmosphere"	
Fumigants	See "Pest control with fumigants"	
Glycol ethers	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b>	
- Di(2-methoxyethyl)ether (Diglyme, CAS no: 111-96-6)	With effect from 1 November 2021 it is prohibited to use Diglyme, and preparations containing Diglyme	See "Substances in accordance with Annex XIV, REACH Regulation"
Halogenated biphenyls with the formula $C_{12}H_nX_{10-n}$ ; X = halogen and $0 \leq n \leq 9$ Halogenated naphthalenes with the formula $C_{10}H_nX_{8-n}$ ; X = halogen and $0 \leq n \leq 7$ Halogenated terphenyls with the formula $C_{18}H_nX_{14-n}$ ; X = halogen and $0 \leq n \leq 13$	<p><b>Annex 1.2 (Halogenated organic compounds)</b></p> <p>Use of these substances, and of substances and preparations containing these substances, is prohibited</p> <p>See also "Polychlorinated biphenyls", "Polychlorinated naphthalenes" and "Hexabromobiphenyls"</p> <p><b>Annex 2.14 (Capacitors and transformers)</b></p> <p>Use of capacitors or transformers which contain these substances is prohibited</p>	<p>The following are permitted:</p> <ul style="list-style-type: none"> <li>• Use for analysis and research purposes</li> <li>• Lubricating oils and greases manufactured from waste oils with no more than 1 ppm halogenated biphenyls</li> <li>• Monohalogenated and dihalogenated biphenyls, terphenyls and naphthalenes, as well as preparations containing such compounds, if they are used exclusively as intermediate products</li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Halogenated diaryalkanes	See "Monomethyl-dibromo-diphenyl methane, monomethyl-dichloro-diphenyl methane and monomethyl-tetrachloro-diphenyl methane"	
Halons: fully halogenated bromofluorocarbons	See "Ozone depleting substances"	
HBFCs: partially halogenated hydrobromofluorocarbons	See "Ozone depleting substances"	
HCFCs: partially halogenated hydrochlorofluorocarbons		
Heating fuel additives	<p><b>Annex 2.13 (Heating fuel additives)</b></p> <p>The addition of additives to heating fuels is subject to the requirements specified in Annex 5 of the Ordinance on Air Pollution Control (OAPC, SR 814.318.142.1); under these provisions, no additives containing halogen or heavy metal compounds (except iron compounds) may be added to heating oils</p>	
Heptabromodiphenyl ether	See "Brominated diphenyl ether"	
Heptachlor (CAS no. 76-44-8) Heptachlor epoxide (CAS no. 1024-57-3)	<p><b>Annex 1.1 (Halogenated organic compounds)</b></p> <p>Use of these substances, and of substances and preparations containing these substances, is prohibited</p>	Use for analysis and research purposes
Hexabromocyclododecane (HBCDD) (CAS no. 25637-99-4) $\alpha$ -HBCD (CAS no. 134237-50-6) $\beta$ -HBCD (CAS no. 134237-51-7) $\gamma$ -HBCD (CAS no. 134237-52-8)	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of these substances, and preparations containing them, is prohibited</p>	Use for analysis and research purposes
Hexabromodiphenylether	See "Brominated diphenyl ether"	
Hexachlorobenzene (HCB) (CAS no. 118-74-1)	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of HCB, and of substances and preparations containing HCB, is prohibited</p>	Use for analysis and research purposes

<b>Substance/Preparation/Article</b>	<b>Regulations</b>	<b>Exemptions/Transitional provisions</b>
Hexachlorocyclohexane (HCH), all isomers	<b>Annex 1.1 (Persistent organic pollutants)</b> Use of these substances, and of substances and preparations containing these substances, is prohibited	Use for analysis and research purposes
Hexachloroethane (CAS no. 67-72-1)	<b>Annex 1.3 (Chlorinated aliphatic hydrocarbons)</b> It is prohibited to use this substance in the manufacturing or processing of non-ferrous metals	
HFCs: Hydrofluorocarbons	See "Substances stable in atmosphere"	
HFES: Hydrofluoroethers	See "Substances stable in atmosphere"	
High-voltage installations	See "Substances stable in atmosphere"	
Insecticides for pest control	Pesticides are only to be used on a professional or commercial basis on behalf of third parties by persons with an appropriate certificate or with a qualification regarded as equivalent; also permissible is the use of such agents – with the exception of fumigants – under the supervision of such persons	
Isodrin (CAS no. 465-73-6)	<b>Annex 1.2 (Halogenated organic compounds)</b> Use of isodrin, and of substances and preparations containing isodrin, is prohibited	Use for analysis and research purposes
Kelevan (CAS no. 4234-79-1)	<b>Annex 1.2 (Halogenated organic compounds)</b> Use of kelevan, and of substances and preparations containing kelevan, is prohibited	Use for analysis and research purposes
Lead compounds - Lead chromate (CAS no. 7758-97-6) - Lead sulfochromate yellow (CAS no. 1344-37-2) - Lead chromate molybdate sulfate red (CAS no. 12656-85-8)	<b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b> Use of these substances and preparations containing them is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation". The provisions of Annex 2.8 on lead in paints and varnishes must be complied with

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Leather goods	See "Textiles and leather goods"	
Lindane (CAS no. 58-89-9)	See "Hexachlorocyclohexane (HCH)"	
Liquid halogenated organic compounds such as dichloromethane, trichloroethylene, tetrachloroethylene	<p><b>Annexes 2.1 and 2.2 (Laundry detergents and cleaning products)</b></p> <p>It is prohibited to use liquid halogenated organic substances in laundry detergents and cleaning agents produced for own use</p>	Agents which are not released into waste water
Mercury (Hg, CAS no. 7439-97-6), Hg compounds and preparations containing Hg	<p><b>Annex 1.7 (Mercury)</b></p> <p>The use of elementary mercury, mercury compounds and preparations containing mercury for the manufacture of the following products is prohibited:</p> <ul style="list-style-type: none"> <li>• Batteries and their components</li> <li>• Measurement devices (clinical thermometers and other measurement instruments intended for general use, barometers, hygrometers, manometers, sphygmomanometers, strain gauges for plethysographs, tensiometers, thermometers and other non-electrical thermometric applications, pycnometers, instruments for determining the softening point</li> <li>• Switches and relais</li> <li>• Plant protection products</li> <li>• Biocides</li> <li>• Paints and lacquers (excluding products for use by artists)</li> <li>• Polyurethanes</li> <li>• Preparations and articles that contain mercury and are intended for a use unknown before 1 January 2018</li> <li>• Phenylmercury acetate (CAS no. 62-38-4), phenylmercury-propionate (CAS no. 103-27-5), phenylmercury-2-ethylhexanoate (CAS no. 13302-00-6), phenylmercury octanoate (CAS no. 13864-38-5) phenylmercury neodecanoate (CAS no. 26545-49-3)</li> </ul> <p>In addition, use of the following is prohibited:</p>	<p>The use of elementary mercury, mercury compounds and preparations containing mercury is permitted for the manufacture of:</p> <ul style="list-style-type: none"> <li>• Sphygmomanometers for use as a reference standard for the validation of mercury-free appliances</li> <li>• Thermometers intended to be used for measurements based on standards that call for the use of thermometers containing mercury</li> <li>• Triple point cells that are used for the calibration of platinum resistance thermometers</li> <li>• Switches and relais that <ul style="list-style-type: none"> <li>- are intended as components or spare parts for equipment which is necessary for the protection of the essential interests of the security of Switzerland</li> <li>- are intended as components or spare parts for equipment which, in accordance with the provisions of Directive 2011/65/EU (RoHS2), may contain mercury-containing switches and relais</li> <li>- are intended as spare parts for equipment which is exempted from the provisions of Directive 2011/65/EU</li> </ul> </li> <li>• Biocides used for research and development purposes</li> <li>• Preparations and articles intended for «new uses» in the following sectors:</li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
	<ul style="list-style-type: none"> <li>Elementary mercury, mercury compounds and mercury containing preparations as auxiliary substances in industrial manufacturing processes</li> <li>Dental amalgam, if priority can be given to a different filling material for medical reasons</li> </ul>	<ul style="list-style-type: none"> <li>Products that are necessary for the protection of the essential interests of the security of Switzerland, including arms, munitions and war material specifically intended for military purposes</li> <li>Products for use in outer space</li> </ul>
MDA, technical MDA	See "4,4'-diaminodiphenyl methane"	
Methoxychlor (CAS no. 72-43-5)	<p><b>Annex 1.2 (Halogenated organic compounds)</b></p> <p>Use of methoxychlor, and of substances and preparations containing methoxychlor, is prohibited</p>	Use for analysis and research purposes
Mirex (CAS no. 2385-85-5)	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of mirex, and of substances and preparations containing mirex, is prohibited</p>	Use for analysis and research purposes
MOCA	See "2,2'-Dichloro-4,4'-methylenedianiline"	
<p>Monomethyl-dibromo-diphenyl methane (CAS no. 99688-47-8)</p> <p>Monomethyl-dichloro-diphenyl methane</p> <p>Monomethyl-tetrachloro-diphenyl methane (CAS no. 76253-60-6)</p>	<p><b>Annex 1.2 (Halogenated organic compounds)</b></p> <p>Use of halogenated diarylalkanes, and of substances and preparations containing halogenated diarylalkanes, is prohibited</p> <p><b>Annex 2.14 (Capacitors and transformers)</b></p> <p>Use of capacitors or transformers which contain halogenated diarylalkanes is prohibited</p>	Use for analysis and research purposes
Musk xylene	See "5-tert-butyl-2,4,6-trinito-m-xylene"	
Nitrogen trifluoride (CAS no. 7783-54-2)	See "Substances stable in atmosphere"	
<p>Nonylphenol (NP) (C<sub>15</sub>H<sub>24</sub>O)</p> <p>and its ethoxylates (NPEs)</p>	See "Alkylphenols (AP) and their ethoxylates (APEs)"	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Octabromodiphenyl ether (octaBDE)	<p><b>Annex 1.2 (Halogenated organic compounds)</b></p> <p>Use of octaBDE, and of substances and preparations containing 0.1% or more octaBDE, is prohibited</p>	Use for analysis and research purposes
Octylphenol (OP) (C <sub>14</sub> H <sub>22</sub> O) and its ethoxylates (OPEs)	See “Alkylphenols (AP) and their ethoxylates (APEs)”	
<p>Oxo-degradable plastics</p> <p>“Oxo-degradable plastic” means plastic materials that include additives which, through oxidation, lead to the fragmentation of the plastic material into micro-fragments or to chemical decomposition</p>	<p><b>Annex 2.9 (Plastics, their monomers and additives)</b></p> <p>With effect from 1 October 2022 it is prohibited to use oxo-degradable plastics</p>	Oxo-degradable plastics that where first placed on the market before 1 October 2022
<p>Ozone depleting substances</p> <p>All fully halogenated chlorofluorocarbons with up to 3 carbon atoms (CFCs), e.g.:</p> <ul style="list-style-type: none"> <li>- Trichlorofluoromethane (CFC 11)</li> <li>- Dichlorodifluoromethane (CFC 12)</li> <li>- Tetrachlorodifluoroethane (CFC 112)</li> <li>- Trichlorotrifluoroethane (CFC 113)</li> <li>- Dichlorotetrafluoroethane (CFC 114)</li> <li>- Chloropentafluoroethane (CFC 115)</li> </ul> <p>All fully halogenated bromofluorocarbons with up to 3 carbon atoms (halons), e.g.:</p> <ul style="list-style-type: none"> <li>- Bromochlorodifluoromethane (Halon 1211)</li> <li>- Bromotrifluoromethane (Halon 1301)</li> <li>- Dibromotetrafluoroethane (Halon 2402)</li> </ul>	<p><b>Annex 1.4 (Substances that deplete the ozone layer)</b></p> <p>Use of ozone depleting substances is prohibited</p> <hr/> <p><b>Annex 2.3 (Solvents)</b></p> <p>Use of solvents which contain ozone depleting substances is prohibited for cleaning, dissolution, emulsification and suspension purposes</p>	<ul style="list-style-type: none"> <li>• Use as intermediates in a process leading to complete chemical conversion, if no substitutes are currently available</li> <li>• Use for analysis and research purposes permitted under the Montreal Protocol</li> <li>• Use for the manufacture of preparations or articles which may be placed on the market in accordance with the provisions of Annexes 2.9 – 2.11</li> <li>• On receipt of a justified request, further exemptions are possible under certain conditions</li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
<p>All partially halogenated hydrochlorofluorocarbons with up to 3 carbon atoms (HCFCs), e.g.:</p> <ul style="list-style-type: none"> <li>- Chlorodifluoromethane (HCFC 22)</li> <li>- Dichlorotrifluoroethane (HCFC 123)</li> <li>- Dichlorofluoroethane (HCFC 141)</li> <li>- Chlorodifluoroethane (HCFC 142)</li> <li>- 1-Chloro-3,3,3-trifluoropropene (HCFO 1233zd)</li> <li>- 1-Chloro-2,3,3,3-Tetrafluoropropene (HCFO 1224yd)</li> </ul>	<p><b>Annex 2.10 (Refrigerants)</b></p> <p>Refilling of appliances and systems with ozone depleting refrigerants is prohibited</p>	<ul style="list-style-type: none"> <li>• Refrigerants with regenerated HCFCs may only be refilled in appliances and systems if an exemption permit has been issued. The relevant authority (FOEN) can only issue exemption permits until 30 June 2016. Provided that it supports the safety of a nuclear power plant or another particularly complex system, the exemption may be extended beyond 30 June 2016</li> <li>• Servicing of systems using ozone-depleting refrigerants, if in the current state of technology no substitute is available and the refrigerant has an ozone depletion potential of not more than 0.0005</li> </ul>
<p>All partially halogenated hydrobromofluorocarbons with up to 3 carbon atoms (HBFCs)</p> <p>1,1,1-trichloroethane (CAS no. 71-55-6)</p> <p>Carbon tetrachloride (CAS no. 56-23-5)</p> <p>Bromomethane (CAS no. 74-83-9)</p> <p>Bromochloromethane (CAS no. 74-97-5)</p>	<p>Additional obligations:</p> <ul style="list-style-type: none"> <li>• Owners of appliances and systems containing more than 3 kg of ozone depleting refrigerants, or refrigeration and air conditioning systems used in motor vehicles and containing ozone depleting refrigerants, must arrange for regular leak checks</li> <li>• For appliances and systems containing more than 3 kg of refrigerants, records must be kept in a maintenance booklet</li> <li>• Anyone who has commissioned or is decommissioning a stationary installation containing more than 3 kg of refrigerants must notify the FOEN</li> <li>• Anyone who uses refrigerants or appliances or systems containing them must ensure that the refrigerants do not pose a risk to the environment, in particular in particular by preventing emissions of refrigerants and by ensuring that wastes from such substances are appropriately disposed of</li> <li>• Only persons with an appropriate certificate or a qualification regarded as equivalent, or who are acting under the supervision of such persons, are allowed to handle refrigerants on a professional or commercial basis during the manufacture, installation, maintenance or disposal of appliances or systems</li> </ul>	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
	<p><b>Annex 2.11 (Extinguishing agents)</b></p> <ul style="list-style-type: none"> <li>• Ozone depleting extinguishing agents must not enter the environment, except when used to combat fires (until 1 June 2024, see last point); in particular, use in exercises and tests is prohibited</li> <li>• Owners of appliances which contain ozone depleting extinguishing agents must have them serviced by a specialist every three years</li> <li>• Owners of systems which contain ozone depleting extinguishing agents must have them serviced by a specialist once a year</li> <li>• From 1 June 24, a ban on the use of ozone-depleting extinguishing agents applies. Systems containing extinguishing agents that deplete the ozone layer (e.g. halons) must be taken out of service before this date and the extinguishing agent contained must be disposed of or recycled properly</li> </ul>	<p>From 1 June 2024 an exemption applies for the use in aeroplanes, special-purpose military vehicles or nuclear installations, if the safety of persons cannot be adequately ensured in accordance with the current state of the art in fire prevention without the use of ozone-depleting extinguishing agents</p>
Paint strippers	See "Dichloromethane"	
Pentabromodiphenyl ether (pentaBDE)	See "Brominated diphenyl ethers"	
Pentachlorobenzene (CAS no. 608-93-5)	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of this substance, and of substances and preparations containing this substance, is prohibited</p>	Use for analysis and research purposes
Pentachloroethane (CAS no. 76-01-7)	<p><b>Annex 1.3 (Chlorinated aliphatic hydrocarbons)</b></p> <p>Use of pentachloroethane, and of substances and preparations containing 0.1% or more pentachloroethane, is prohibited</p>	Use is permitted in closed systems in industrial processes, and for analysis and research; the substance may also be used in medical products and cosmetics (subject to the provisions of medical product and food legislation)
Pentachlorophenol (PCP, CAS no.87-86-5), its salts, and esters	<p><b>Annex 1.1 (Persistent organic pollutants)</b></p> <p>Use of these substances, and of substances and preparations containing these substances, is prohibited</p>	Use for analysis and research purposes

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Pentachlorophenoxy compounds	<p><b>Annex 1.2 (Halogenated organic compounds)</b></p> <p>Use of these substances, and of substances and preparations containing these substances, is prohibited</p>	Use for analysis and research purposes
<p>Perborates</p> <ul style="list-style-type: none"> <li>- Sodium perborate</li> <li>- Sodium peroxometaborate (CAS no: 7632-04-4)</li> </ul>	<p><b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b></p> <p>With effect from 2 February 2024 use of these perborates, and preparations containing these perborates, is prohibited</p>	See "Substances in accordance with Annex XIV, REACH Regulation"
<p>Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain, their salts (C<sub>9</sub> - C<sub>14</sub>-PFCAs) and C<sub>9</sub> - C<sub>14</sub>-PFCA-related substances</p> <p>A C<sub>9</sub> - C<sub>14</sub>-PFCA-related substance (including its salts and polymers) means any substance having a linear or branched perfluoroalkyl group with the formula C<sub>n</sub>F<sub>2n+1</sub> (n = 8 – 13) directly attached to another carbon, as one of the structural elements, that degrades to the following PFCAs:</p> <ul style="list-style-type: none"> <li>- heptadecafluorononanoic acid,</li> <li>- nonadecafluorodecanoic acid,</li> <li>- heneicosafleuroundecanoic acid,</li> <li>- tricosafleurododecanoic acid,</li> <li>- pentacosafleurotridecanoic acid, or</li> <li>- heptacosafleurotetradecanoic acid</li> </ul> <p>The following substances are excluded from this designation:</p> <ul style="list-style-type: none"> <li>- C<sub>n</sub>F<sub>2n+1</sub>X, where n = 9 – 14 and X = F, Cl or Br</li> <li>- Perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥ 14 perfluorinated carbons</li> </ul>	<p><b>Annex 1.16 (Per- and polyfluoroalkyl substances)</b></p> <p>With effect from 1 October 2022 it is prohibited:</p> <ul style="list-style-type: none"> <li>• To use C<sub>9</sub> - C<sub>14</sub>-PFCAs and any C<sub>9</sub> - C<sub>14</sub>-PFCA-related substances</li> <li>• To use substances and preparations containing more than 25 ppb for the sum of C<sub>9</sub> - C<sub>14</sub>-PFCAs or 260 ppb for the sum of C<sub>9</sub> - C<sub>14</sub>-PFCA-related substances</li> </ul>	<ul style="list-style-type: none"> <li>• Use of a fluorochemical with a carbon chain equal to or shorter than 6 atoms, if: <ul style="list-style-type: none"> <li>- C<sub>9</sub> - C<sub>14</sub>-PFCAs and any C<sub>9</sub> - C<sub>14</sub>-PFCA-related substances are merely contained as unavoidable by-products of the manufacture</li> <li>- The manufactured fluorochemical is exclusively used as an intermediate</li> <li>- Emissions of C<sub>9</sub> - C<sub>14</sub>-PFCAs and any C<sub>9</sub> - C<sub>14</sub>-PFCA-related substances are avoided by application of the best available techniques or, if not possible, kept at a minimum</li> </ul> </li> <li>• Use for analysis and research purposes</li> <li>• Use of fluoropolymers that contain perfluoroalkoxy groups provided that the sum of C<sub>9</sub> - C<sub>14</sub>-PFCAs does not exceed 100 ppb</li> <li>• Until 25 August 2024 use of fluoropolymers that contain perfluoroalkoxy groups provided that the sum of C<sub>9</sub> - C<sub>14</sub>-PFCAs does not exceed 2000 ppb</li> <li>• Use of non-invasive and non-implantable medical devices that do not contain more than 2000 ppb for the sum of C<sub>9</sub> - C<sub>14</sub>-PFCAs and C<sub>9</sub> - C<sub>14</sub>-PFCA-related</li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
		<p>substances, and use of substances or preparations needed to manufacture them</p> <ul style="list-style-type: none"> <li>• Use of fire-fighting foams that contain C<sub>9</sub> - C<sub>14</sub>-PFCAs or C<sub>9</sub> - C<sub>14</sub>-PFCA-related substances merely as unavoidable impurities which were placed on the market before 1 October 2022</li> <li>• Fire-fighting foams that contain C<sub>9</sub> - C<sub>14</sub>-PFCA-related substances intentionally which were placed on the market before 1 October 2022 may be used as follows: <ul style="list-style-type: none"> <li>- by fire services and military personnel for fire-fighting in operational situations: until 1 April 2023</li> <li>- in fire safety installations, including use in any functional tests required for such installations where all releases are contained and disposed of in an environmental sound manner: until 31 December 2025</li> </ul> </li> <li>• Use of preparations that are intended for the use in photolithography or etch processes in semiconductor manufacturing until 4 July 2025</li> <li>• Use of fluoropolymers for the purpose of the can coating for pressurised metered-dose inhalers until 25 August 2028</li> <li>• The prohibitions apply to the use of substances or preparations needed to manufacture the following articles: <ul style="list-style-type: none"> <li>- From 4 July 2023 to textiles for oil- and water-repellency for the protection of workers from dangerous liquids</li> <li>- From 4 July 2023 to high-performance, corrosion-resistant gas filter membranes, water filter membranes and membranes for medical textiles based on polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF)</li> <li>- From 4 July 2023 to industrial waste heat exchanger equipment based on PTFE and PVDF and industrial</li> </ul> </li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
		<p>sealants based on PTFE and PVDF capable of preventing leakage of volatile organic compounds and PM2.5 particulates</p> <ul style="list-style-type: none"> <li>- From 31 December 2023 to semiconductors on their own and semiconductors incorporated in semi-finished and finished electronic equipment</li> <li>- From 4 July 2025 to photographic coatings applied to films</li> <li>- From 4 July 2025 to invasive and implantable medical devices</li> <li>- From 31 December 2030 to semiconductors used in spare or replacement parts for finished electronic equipment placed on the market before 31 December 2023</li> </ul>
<p>Perfluorohexane sulfonic acid, its salts (PFHxS) and any PFHxS-related substance</p> <p>A PFHxS-related substance (including its salts and polymers) means any substance having a linear or branched perfluorohexyl group with the formula C<sub>6</sub>F<sub>13</sub> directly attached to another sulphur atom, as one of the structural elements, that degrades to PFHxS</p>	<p><b>Annex 1.16 (Per- and polyfluoroalkyl substances)</b></p> <p>With effect from 1 October 2022 it is prohibited:</p> <ul style="list-style-type: none"> <li>• To use PFHxS and any PFHxS-related substances</li> <li>• To use substances and preparations containing more than 25 ppb of PFHxS or 1000 ppb for the sum of PFHxS-related substances</li> </ul>	<p>Prohibitions do not apply to the following uses:</p> <ul style="list-style-type: none"> <li>• Use for analysis and research purposes</li> <li>• Until 1 April 2024 use of PFOS containing mist suppressants for non-decorative hard chromium (VI) plating in closed circulation systems, if if they contain PFHxS and PFHxS-related substances solely as unavoidable impurities</li> <li>• Fire-fighting foams which were first placed on the market before 1 October 2022, if they contain PFHxS and PFHxS-related substances solely as unavoidable impurities</li> </ul>
<p>Perfluorooctane sulfonates (PFOS)</p> <p>Within the meaning of the regulations, PFOS are substances with the molecular formula C<sub>8</sub>F<sub>17</sub>SO<sub>2</sub>X which have one sulfonate group bonded to the perfluorinated carbon chain and</p>	<p><b>Annex 1.16 (Per- and polyfluoroalkyl substances)</b></p> <p>Use of PFOS, or of any substances or preparations containing more than 0.001% of PFOS, is prohibited</p>	<p>The prohibitions do not apply to the following items or to substances and preparations needed to manufacture them:</p>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
<p>which occur with various functional groups, e.g. as an acid (X = OH), metal salt (X = O·M<sup>+</sup>), sulfonyl halide (X = F) or amide (X = NR<sub>2</sub>), or as other derivatives including polymers</p>		<ul style="list-style-type: none"> <li>• Analysis and research purposes</li> <li>• Mist suppressants for non-decorative hard chromium (VI) plating in closed circulation systems until 1 April 2024</li> </ul>
<p>Perfluorooctanoic acid, its salts (PFOA) and any PFOA-related substance</p> <p>A PFOA-related substance (including its salts and polymers) means any substance having a linear or branched perfluoroheptyl group with the formula C<sub>7</sub>F<sub>15</sub> directly attached to another carbon, as one of the structural elements, that degrades to PFOA</p> <p>The following substances are excluded from this designation:</p> <ul style="list-style-type: none"> <li>- C<sub>8</sub>F<sub>17</sub>X, where X = F, Cl or Br</li> <li>- Fluoropolymers that are covered by CF<sub>3</sub>[CF<sub>2</sub>]<sub>n</sub>-R, where R = any group, n &gt; 16</li> <li>- Perfluoroalkyl carboxylic and phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 8 perfluorinated carbons</li> <li>- Perfluorooctane sulfonates (PFOS)</li> <li>- Perfluoroalkane sulfonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 perfluorinated carbons</li> </ul>	<p><b>Annex 1.16 (Per- and polyfluoroalkyl substances)</b></p> <p>With effect from 1 June 2021 it is prohibited:</p> <ul style="list-style-type: none"> <li>• To use PFOA and any PFOA-related substances</li> <li>• To use substances and preparations containing more than 25 ppb of PFOA or 1000 ppb for the sum of PFOA-related substances</li> </ul>	<ul style="list-style-type: none"> <li>• Use of a fluorochemical with a carbon chain equal to or shorter than 6 atoms, if: <ul style="list-style-type: none"> <li>- PFOA or PFOA-related substances are merely contained as unavoidable by-products of the manufacture</li> <li>- The manufactured fluorochemical is exclusively used as an intermediate</li> <li>- Emissions of PFOA or PFOA-related substances are avoided by application of the best available techniques or, if not possible, kept at a minimum</li> </ul> </li> <li>• Use of a PFOA-related substance arising from a manufacturing process of a fluorochemical with a carbon chain equal to or shorter than 6 atoms for the purpose of transformation to a non-PFOA-related substance if emissions of the PFOA-related substance are avoided by application of the best available techniques or, if not possible, kept at a minimum</li> <li>• Use for analysis and research purposes</li> <li>• Use of non-invasive and non-implantable medical devices that do not contain more than 2000 ppb of PFOA and PFOA-related substances, and use of substances or preparations needed to manufacture them</li> <li>• Use of fire-fighting foams that contain PFOA or PFOA-related substances merely as unavoidable impurities which were placed on the market before 1 June 2021</li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
		<ul style="list-style-type: none"> <li>• Fire-fighting foams that contain PFOA-related substances intentionally which were placed on the market before 1 June 2021 may be used as follows: <ul style="list-style-type: none"> <li>- by fire services and military personnel for fire-fighting in operational situations: until 1 April 2023</li> <li>- in fire safety installations, including use in any functional tests required for such installations where all releases are contained and disposed of in an environmental sound manner: until 31 December 2025</li> </ul> </li> <li>• Use of preparations that are intended for the use in photolithography or etch processes in semiconductor manufacturing until 4 July 2025</li> <li>• Use of perfluorooctyl bromide containing perfluorooctyl iodide for the purpose of producing pharmaceutical products until 31 December 2036</li> <li>• The prohibitions apply to the use of substances or preparations needed to manufacture the following articles: <ul style="list-style-type: none"> <li>- From 4 July 2023 to textiles for oil- and water-repellency for the protection of workers from dangerous liquids</li> <li>- From 4 July 2023 to high-performance, corrosion-resistant gas filter membranes, water filter membranes and membranes for medical textiles based on polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF)</li> <li>- From 4 July 2023 to industrial waste heat exchanger equipment based on PTFE and PVDF and industrial sealants based on PTFE and PVDF capable of preventing leakage of volatile organic compounds and PM2.5 particulates</li> <li>- From 4 July 2025 to photographic coatings applied to films</li> </ul> </li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
		- From 4 July 2025 to invasive and implantable medical devices
Perthane (CAS no. 72-56-0)	<b>Annex 1.2 (Halogenated organic compounds)</b> Use of perthane, and of substances and preparations containing perthane, is prohibited	Use for analysis and research purposes
Pest control with fumigants:  - Hydrogen cyanide (HCN) and substances or preparations which release HCN - Phosphine (PH <sub>3</sub> ) and substances or preparations which release PH <sub>3</sub> - Sulfuryl fluoride - Ethylene oxide - Carbon dioxide in installations	Fumigants are only to be used by persons with an appropriate certificate or with a qualification regarded as equivalent	Prepackaged preparations which do not release more than 15 g of PH <sub>3</sub> and are used as rodenticides outdoors  Ethylene oxide used as a fumigant in sterilisation systems for medical purposes
PFCs: Perfluorocarbons	See "Substances stable in atmosphere"	
- Phenolic benzotriazoles - 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328) (CAS no. 25973-55-1) - 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS no. 3864-99-1) - 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS no. 36437-37-3) - 2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS no. 3846-71-7)	<b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b>  With effect from 2 August 2024 use of these phenolic benzotriazoles, and preparations containing them, is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"
Phosphoric acid esters	See "Tris(2-chloroethyl) phosphate", "Tris(2,3-dibromopropyl) phosphate", and "Trixylyl phosphate"	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Phthalic acid esters - Bis(2-ethylhexyl) phthalate (DEHP, CAS no. 117-81-7) - Benzyl butyl phthalate (BBP, CAS no. 85-68-7) - Dibutyl phthalate (DBP, CAS no. 84-74-2) - Di-isobutyl phthalate (DIBP, CAS no. 84-69-5)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b>  Use of these substances and preparations containing them is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"
Phthalic acid esters - Diisopentyl phthalate (CAS no. 605-50-5) - 1,2-Benzenedicarboxylic acid, Di-C6-8-branched alkyl esters, C7 rich (CAS no. 71888-89-6) - 1,2-Benzenedicarboxylic acid, Di-C7-11-branched and linear alkyl esters (CAS no. 68515-42-4) - 1,2-Benzenedicarboxylic acid, Dipentylester, branched und linear (CAS no. 84777-06-0) - Bis(2-methoxyethyl) phthalate (CAS no. 117-82-8) - Dipentylphthalate CAS no. 131-18-0 - n-Pentyl-isopentylphthalate (CAS no. 776297-69-9) - 1,2-Benzenedicarboxylic acid, Dihexylester, branched und linear (CAS no. 68515-50-4) - Dihexylphthalate (CAS no. 84-75-3)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b>  With effect from 2 November 2023 use of these phthalic acid esters, and preparations containing them, is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
- 1,2-Benzenedicarboxylic acid, Di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl-, hexyl- and octyl-diesters with $\geq 0.3$ % dihexylphthalate (CAS no. 68515-51-5; 68648-93-1)		
Pitch, coal tar, high temp.	See "Coal tar pitch (high temp.)"	
Plant protection products	<p><b>Annex 2.5 (Plant protection products)</b></p> <p>Use of plant protection products is prohibited:</p> <ul style="list-style-type: none"> <li>• In nature reserves, reed beds and moors</li> <li>• In hedges and copses and in a 3-metre-wide strip alongside hedges and copses</li> <li>• In forests and in a 3-metre-wide strip alongside the stand of trees</li> <li>• In bodies of water and in a 3-metre wide strip alongside bodies of water</li> <li>• In groundwater protection zone S1</li> <li>• On or alongside railway track installations in groundwater protection zones S1 and S2; outside these zones, the necessary restrictions are specified by the Federal Office of Transport</li> </ul> <p>It is also prohibited to use herbicides or plant growth control agents:</p> <ul style="list-style-type: none"> <li>• On roofs, terraces and storage sites</li> <li>• On or alongside roads, paths and squares</li> <li>• On embankments and verges alongside roads and railways</li> </ul> <p>Cantonal authorities may specify further restrictions for the areas of contribution <math>Z_u</math> and <math>Z_o</math> if this is required to ensure water protection; in particular, they will restrict the use of a plant protection product in the area of contribution <math>Z_u</math> if the product is detected at a drinking water well and the requirements for groundwater which is used or intended for use are repeatedly not met</p> <p>Use of plant protection products in groundwater protection zone S2 is governed by the Ordinance on Plant Protection Products</p>	<ul style="list-style-type: none"> <li>• Use of plant protection products in nature reserves, reed beds and moors to preserve crops in closed installations or buildings</li> <li>• Individual weed treatments: <ul style="list-style-type: none"> <li>- In hedges and copses</li> <li>- On wooded pastures and in a 3-metre-wide strip alongside the stand of trees</li> <li>- On motorways and cantonal roads</li> <li>- On embankments and verges alongside roads and railways</li> </ul> </li> <li>• Under certain conditions, cantonal authorities may issue an authorisation for the use of plant protection products in forests in the following applications: <ul style="list-style-type: none"> <li>- Treatment of wood which could cause damage to forests following natural disasters</li> <li>- Treatment of cut wood with insecticides at sites outside groundwater protection zones S1 and S2 if effective measures are taken to prevent seepage and runoff of the insecticide</li> <li>- Forest nurseries outside groundwater protection zones</li> <li>- Control of wildlife damage in natural regeneration areas</li> <li>- Forestation or reforestation areas</li> </ul> </li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
	Additional obligations: <ul style="list-style-type: none"> <li>• Users must return plant protection products for which they have no further use to a person obliged to take them back, or dispose of them at a collection centre</li> <li>• Plant protection products are only to be used on a professional or commercial basis by persons with an appropriate certificate or with a qualification regarded as equivalent or who are acting under the supervision of such persons</li> </ul>	
Polybrominated biphenyls (PBBs)	See "Halogenated biphenyls" and "Hexabromobiphenyl"	
Polybrominated diphenyl ethers (PBDEs)	See "Brominated dibiphenyl ethers" and "Hexabromobiphenyl"	
Polychlorinated biphenyls (PCBs) with CAS no. 1336-36-3 et al. Polychlorinated naphthalenes $C_{10}H_nCl_{8-n}$ with $0 \leq n \leq 7$	<b>Annex 1.1 (Persistent organic pollutants)</b>  Use of these substances, and of substances and preparations containing these substances, is prohibited	The following are permitted: <ul style="list-style-type: none"> <li>• Use for analysis and research purposes</li> <li>• Lubricating oils and greases manufactured from waste oils with no more than 1 ppm of halogenated biphenyls</li> </ul>
Polychlorinated terphenyls (PCTs)	See "Halogenated terphenyls"	
Polycyclic aromatic hydrocarbons (PAHs)  - Benzo[a]pyrene (CAS no. 50-32-8) - Benzo[e]pyrene (CAS no. 192-97-2) - Benzo[a]anthracene (CAS no. 56-55-3) - Chrysene (CAS no. 218-01-9) - Benzo[b]fluoranthene (CAS no. 205-99-2) - Benzo[j]fluoranthene (CAS no. 205-82-3) - Benzo[k]fluoranthene (CAS no. 207-08-9) - Dibenzo[a,h]anthracene (CAS no. 53-70-3)	<b>Annex 2.9 (Plastics, their monomers and additives)</b>  With effect of 1 April 2023 it is prohibited to use plastic granules or crumb which, taken together, contain more than 20 mg per kilogram of the listed PAHs which are used as infill material for artificial turf fields or as loose bulk material on playgrounds or sports fields	
Quintozene (CAS no. 82-68-8)	<b>Annex 1.2 (Halogenated organic compounds)</b>  Use of quintozene, and of substances and preparations containing quintozene, is prohibited	Use for analysis and research purposes

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Refrigerants	See "Ozone depleting substances" and "Substances stable in atmosphere"	
Rodenticides	<ul style="list-style-type: none"> <li>• Authorisation granted by the cantonal authority is required for use, on a professional or commercial basis, of rodenticides to be applied on more than one farm or by machine</li> <li>• Rodenticides are only to be used on a professional or commercial basis on behalf of third parties by persons with an appropriate certificate or with a qualification regarded as equivalent; also permissible is the use of such agents under the supervision of such persons</li> </ul>	
Short-chain chlorinated paraffins (SCCPs)	See "Alkanes, C <sub>10-13</sub> , chloro-"	
Solvents	See "1,2-Dichlorethane (EDC)", "Benzene", "Dichloromethane", "Glycol ether", "Ozone depleting substances", "Substances stable in atmosphere", and "Trichloroethylene"	
Solvents, chlorinated	<p><b>Annex 1.3 (Chlorinated aliphatic hydrocarbons)</b></p> <p>It is prohibited to use the following substances, or substances or preparations containing 0.1% or more of these substances:</p> <ul style="list-style-type: none"> <li>- Chloroform (CAS no. 67-66-3)</li> <li>- 1,1,2-trichloroethane (CAS no. 79-00-5)</li> <li>- 1,1,2,2-tetrachloroethane (CAS no. 79-34-5)</li> <li>- 1,1,1,2-tetrachloroethane (CAS no. 630-20-6)</li> <li>- Pentachloroethane (CAS no. 76-01-7)</li> <li>- 1,1-dichloroethylene (CAS no. 75-35-4)</li> </ul>	Use in closed systems in industrial processes, and for analysis and research, is permitted; the substances may also be used in medical products and cosmetics (subject to the provisions of medical product and food legislation); on receipt of a justified request, temporary exemptions may be granted for small quantities (< 20 litres per annum)
Solvents, chlorinated	<p><b>Annex 2.3 (Solvents)</b></p> <p>When waste from the following halogenated solvents is handled on a professional or commercial basis, prohibitions on mixing are to be complied with:</p> <ul style="list-style-type: none"> <li>- Dichloromethane (CAS no. 75-09-2)</li> </ul>	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
	<ul style="list-style-type: none"> <li>- 1,1-dichloroethane (CAS no. 75-34-3)</li> <li>- 1,2-dichloroethane (CAS no. 107-06-2)</li> <li>- Chloroform (CAS no. 67-66-3)</li> <li>- Trichloroethylene (CAS no. 79-01-6)</li> <li>- Tetrachloroethylene (CAS no. 127-18-4)</li> <li>- Ozone depleting substances</li> <li>- Substances stable in atmosphere</li> </ul> <p>Halogenated solvent waste containing in total more than 1 % of these substances must not be mixed with other types of solvent waste, or other waste, substances, preparations or articles</p>	
Solvents, hazardous	See "Aerosol dispensers"	
Strobane (CAS no. 8001-50-1)	<p><b>Annex 1.2 (Halogenated organic compounds)</b></p> <p>Use of strobane, and of substances and preparations containing strobane, is prohibited</p>	Use for analysis and research purposes
Strychnine	<p><b>Annex 2.4 No. 3 (Rodenticides)</b></p> <p>Use of rodenticides containing strychnine is prohibited</p>	
<p>Substances in accordance with Annex XIV, REACH Regulation</p> <ol style="list-style-type: none"> <li>1) 5-tert-Butyl-2,4,6-trinitro-m-xylene (musk xylene, CAS no. 81-15-2)</li> <li>2) 4,4'-diaminodiphenylmethane (MDA, CAS no. 101-77-9)</li> <li>4) Bis(2-ethylhexyl) phthalate (DEHP, CAS no. 117-81-7)</li> <li>5) Benzyl butyl phthalate (BBP, CAS no. 85-68-7)</li> <li>6) Dibutyl phthalate (DBP, CAS no. 84-74-2)</li> </ol>	<p><b>Annex 1.17 (Substances in accordance with Annex XIV REACH Regulation)</b></p> <p>The use of substances in accordance with Annex XIV of the REACH Regulation, which are listed in paragraph 5 of Annex 1.17, and preparations containing such substances is prohibited</p> <p>The following concentrations of substances in preparations are tolerated:</p> <ul style="list-style-type: none"> <li>• PBT and vPvB substances, and substances that give rise to concern due to similar or endocrine properties: up to 0.1%</li> <li>• CMR substances: concentrations below the lowest limit levels according to which preparation is classified as dangerous in Directive 1999/45/EC (Dangerous Preparations Directive) or Annex</li> </ul>	<p>Prohibitions do not apply to the following uses:</p> <ul style="list-style-type: none"> <li>• Use as interim product in accordance with Article 2, paragraph 2], Chemicals Ordinance (SR 813.11)</li> <li>• Use in medicaments</li> <li>• Use in foodstuffs and animal feed</li> <li>• Use in plant protection agents and biocide products</li> <li>• Use as engine fuel and heating fuel</li> <li>• Use in cosmetic products and in materials and items that are intended to come into contact with foodstuffs, as long as the substance has been included in the list</li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
7) Diisobutyl phthalat (DIBP, CAS no. 84-69-5)	VI Part 3 of Regulation (EC) No. 1272/2008 (CLP Directive)	solely because of its inherent properties: “carcinogenic”, “mutagenic”, “toxic to reproduction” or “otherwise severely harmful to human health”
8) Diarsenic trioxide (CAS no. 1327-53-3)		<ul style="list-style-type: none"> <li>• Use in the field of scientific research and development</li> <li>• Use of phthalates DEHP, BBP, DBP and DIBP in the primary packaging of medicaments</li> </ul>
9) Diarsenic pentaoxide (CAS no. 1303-28-2)		
10) Lead chromate (CAS no. 7758-97-6)		<p>Prohibition also does not apply:</p> <ul style="list-style-type: none"> <li>• If the European Commission has approved the substance based on Article 60, paragraph 1 of the REACH Regulation and the substance concerned is used in accordance with the EU approval; or</li> <li>• To uses of the substance concerned for which an application for approval has been submitted in accordance with Article 62 of the REACH Regulation, concerning which a decision has not yet been taken</li> <li>• If the notification authority (Article 77, Chemicals Ordinance) has granted further, temporary exemptions</li> <li>• Uses of chromium trioxide (CAS no: 1333-82-0), acids formed from chromium trioxide, and their oligomers and sodium dichromate (CAS no: 7789-12-0; 10588-01-9) in processes in which the end products do not contain chromium in hexavalent form</li> </ul>
11) Lead sulfochromate yellow (CAS no. 1344-37-2)		
12) Lead chromate molybdate sulfate red (CAS no. 12656-85-8)		
13) Tris(2-chloroethyl) phosphate (TCEP, CAS no. 115-96-8)		
14) 2,4-Dinitrotoluene (2,4-DNT, CAS no. 121-14-2)		
15) Trichlorethylene (CAS no. 79-01-6)		
16) Chromium trioxide (CAS no. 1333-82-0)		
17) Acids formed from chromium trioxide, and their oligomers		
18) Sodium dichromate (CAS no. 7789-12-0; 10588-01-9)		<p>The prohibitions apply:</p> <ul style="list-style-type: none"> <li>• From 1 November 2021 for technical MDA, arsenic acid and Diglyme</li> <li>• From 1 February 2022 for EDC and MOCA</li> <li>• From 1 April 2023 for dichromium tris(chromate), strontium chromate, zinc potassium chromate and pentazinc chromate octahydroxide</li> <li>• From 2 November 2023 for 1-Bromopropane and phthalic acid esters (entry numbers 33 – 39, and 44 – 46)</li> <li>• From 2 February 2024 for anthracene oil, coal tar pitch</li> </ul>
19) Potassium dichromate (CAS no. 7778-50-9)		
20) Ammonium dichromate (CAS no. 7789-09-5)		
21) Potassium chromate (CAS no. 7789-00-6)		
22) Sodium chromate (CAS no. 7775-11-3)		

23) Technical MDA (CAS no. 25214-70-4)	(high temp.), trixylylphosphate, sodium perborate and sodium peroxometaborate
24) Arsenic acid (CAS no. 7778-39-4)	• From 2 May 2024 for 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated and 4-Nonylphenol, branched and linear, ethoxylated
25) Di(2-methoxyethyl) ether (Diglyme, CAS no. 111-96-6)	• From 2 May 2024 for 5-sec-Butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-Butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] (includes each individual stereoisomer of [1] and [2] or any combination thereof)
26) 1,2-Dichlorethane (EDC, CAS no. 107-06-2)	• From 2 August 2024 for UV-328, UV-327, UV-350 and UV-320
27) 2,2'-Dichloro-4,4'-methylenedianiline (MOCA, CAS no. 101-14-4)	• For substances in entry numbers 32–46, a transitional period also applies until 2 July 2026 for the following uses:
28) Dichromium tris(chromate) (CAS no. 24613-89-6)	- manufacture of a replacement part in order to repair a product where the substance concerned is or was used in the manufacture of the product and the product will not function properly without this replacement part
29) Strontium chromate (CAS no. 7789-06-2)	- repair of a product where the substance concerned is or was used in the manufacture of the product and the product can only be repaired by using the substance concerned
30) Zinc potassium chromate (CAS no. 11103-86-9)	
31) Pentazinc chromate octahydroxide (CAS no. 49663-84-5)	
32) 1-Bromopropane (CAS no. 106-94-5)	
33) Diisopentyl phthalate (CAS no. 605-50-5)	
34) 1,2-Benzenedicarboxylic acid, Di-C6-8-branched alkyl esters, C7 rich (CAS no. 71888-89-6)	
35) 1,2-Benzenedicarboxylic acid, Di-C7-11-branched and linear alkyl esters (CAS no. 68515-42-4)	
36) 1,2-Benzenedicarboxylic acid, Dipentylester, branched und linear (CAS no. 84777-06-0)	
37) Bis(2-methoxyethyl) phthalate (CAS no. 117-82-8)	
38) Dipentylphthalate CAS no. 131-18-0	

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
39) n-Pentyl-isopentylphthalate (CAS no: 776297-69-9)		
40) Anthracene oil (CAS no. 90640-80-5)		
41) Pitch, coal tar, high temp. (CAS no. 65996-93-2)		
42) 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated		
43) 4-Nonylphenol, branched und linear, ethoxylated		
44) 1,2-Benzenedicarboxylic acid, Dihexylester, branched und linear (CAS no. 68515-50-4)		
45) Dihexylphthalate (CAS no. 84-75-3)		
46) 1,2-Benzenedicarboxylic acid, Di-C6-10- alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl-, hexyl- and octyldiesters with ≥ 0.3 % dihexylphthalate (CAS no. 68515-51-5; 68648-93-1)		
47) Trixylylphosphate (CAS no. 25155-23-1)		
48) Sodium perborate		
49) Sodium peroxometaborate (CAS no. 7632-04-4)		
50) 5-sec-Butyl-2-(2,4-dimethylcyclohex-3-en- 1-yl)-5-methyl-1,3-dioxane [1], 5-sec-Butyl-2-(4,6-dimethylcyclohex-3-en- 1-yl)-5-methyl- 1,3-dioxane [2]		
51) 2-(2H-Benzotriazol-2-yl)-4,6-di-tert- pentylphenol (UV-328) (CAS no. 25973-55-1)		

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
52) 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS no. 3864-99-1)		
53) 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS no. 36437-37-3)		
54) 2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS no. 3846-71-7)		
Substances stable in the atmosphere	<b>Annex 1.5 (Substances stable in the atmosphere)</b>	
Hydrofluorocarbons as listed in Annex F to the Montreal Protocol on Substances that Deplete the Ozone Layer and other fluorinated organic compounds with a vapour pressure of at least 0.1 mbar at 20° C or whose boiling point does not exceed 240° C at 1013.25 mbar, and which have a mean lifetime in air of at least 2 years, such as:	Use of substances stable in the atmosphere is prohibited; this is without prejudice to the use of substances for the manufacture of preparations and articles which are allowed to be placed on the market in accordance with Annexes 2.3, 2.9, 2.10, 2.11 and 2.12; for substances which are ozone depleting substances, Annex 1.4 is applicable	<ul style="list-style-type: none"> <li>• Use of substances stable in the atmosphere <ul style="list-style-type: none"> <li>- For the production of semiconductors</li> <li>- For use as heat transfer or insulating liquid in welding machines and in testing and calibration baths</li> <li>- As intermediates in a process leading to complete chemical conversion</li> <li>- For analysis and research purposes</li> <li>- For the manufacture of preparations and articles, which may be placed on the market in accordance with the provisions of Annexes 2.3, 2.9, 2.10, 2.11 and 2.12</li> </ul> </li> <li>• Use of SF<sub>6</sub> for the manufacture and maintenance of particle accelerators, mini-relays and high-voltage distribution systems.</li> <li>• On receipt of a justified request, temporary exemptions may be granted if no substitutes are currently available</li> </ul>
Hydrofluorocarbons (HFCs): - Trifluoromethane (HFC-23) - Difluoromethane (HFC-32) - Fluoromethane (HFC-41) - Pentafluoroethane (HFC-125) - 1,1,1,2-tetrafluoroethane (HFC-134a) - 1,1,1-trifluoroethane (HFC-143a)	<b>Annex 2.3 (Solvents)</b> It is prohibited to use solvents which contain substances stable in the atmosphere, or items containing such solvents, for cleaning, dissolving, emulsifying or suspension purposes	<ul style="list-style-type: none"> <li>• Solvents used in closed systems for surface treatment (Annex 2, section 87 of the Ordinance on Air Pollution Control, OAPC)</li> </ul>

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
<ul style="list-style-type: none"> <li>- Heptafluoropropane (HFC-227ea)</li> </ul>		<ul style="list-style-type: none"> <li>• On receipt of a justified request, temporary exemptions may be granted if no substitutes are currently available</li> </ul>
<ul style="list-style-type: none"> <li>- 1,1,1,2,3,3-hexafluoropropane (HFC-236ea)</li> </ul>	<p><b>Annex 2.9 (Plastics)</b></p>	
<p>Hydrofluorocarbons (continued):</p>	<p>Use of foams manufactured with substances stable in the atmosphere, or products containing such foams, is prohibited</p>	<ul style="list-style-type: none"> <li>• Cases where in the current state of technology thermal insulation cannot be obtained using other materials</li> </ul>
<ul style="list-style-type: none"> <li>- 1,1,1,3,3,3-hexafluoropropane (HFC-236fa)</li> </ul>		<ul style="list-style-type: none"> <li>• On receipt of a justified request, temporary exemptions may be granted if no substitutes are currently available</li> </ul>
<ul style="list-style-type: none"> <li>- 1,1,2,2,3-pentafluoropropane (HFC-245ca)</li> </ul>	<p><b>Annex 2.10 (Refrigerants)</b></p>	
<ul style="list-style-type: none"> <li>- 1,1,1,3,3-pentafluoropropane (HFC-245fa)</li> </ul>	<p>Refilling systems with a filling capacity of 40 tonnes or more of CO<sub>2</sub> equivalent with refrigerants that are stable in the atmosphere that have a global warming potential of 2500 or more is prohibited.</p>	<ul style="list-style-type: none"> <li>• Refilling of regenerated refrigerants</li> </ul>
<ul style="list-style-type: none"> <li>- Pentafluorobutane (HFC-365mfc)</li> </ul>		<ul style="list-style-type: none"> <li>• Refilling in systems with a working temperature lower than –50°C, provided regenerated refrigerants are not available on the market for such systems</li> </ul>
<ul style="list-style-type: none"> <li>- Decafluoropentane (HFC-43-10)</li> </ul>		<ul style="list-style-type: none"> <li>• Refilling in systems that have been placed on the market in terms of an exemption, provided regenerated refrigerants are not available on the market</li> </ul>
<p>Perfluorocarbons (PFCs), e.g.:</p>	<p>Additional obligations:</p>	
<ul style="list-style-type: none"> <li>- Tetrafluoromethane (PFC-14)</li> </ul>	<ul style="list-style-type: none"> <li>• Owners of appliances and systems containing more than 3 kg of refrigerants stable in air, or refrigeration and air conditioning systems used in motor vehicles and containing refrigerants stable in air, must arrange for regular leak checks</li> </ul>	
<ul style="list-style-type: none"> <li>- Hexafluoroethane (PFC-116)</li> </ul>	<ul style="list-style-type: none"> <li>• For appliances and systems containing more than 3 kg of refrigerants, records must be kept in a maintenance booklet</li> </ul>	
<ul style="list-style-type: none"> <li>- Octafluoropropane (PFC-218)</li> </ul>	<ul style="list-style-type: none"> <li>• Anyone who has commissioned or is commissioning or decommissioning a stationary installation containing more than 3 kg of refrigerants must notify the FOEN</li> </ul>	
<ul style="list-style-type: none"> <li>- Decafluorobutane (PFC-31-10)</li> </ul>	<ul style="list-style-type: none"> <li>• Operators of air conditioning, commercial refrigeration or industrial refrigeration systems that may only be placed on the market with an exemption permit must ensure that the necessary permit has been issued</li> </ul>	
<ul style="list-style-type: none"> <li>- Octafluorocyclobutane (PFC-C-318)</li> </ul>	<ul style="list-style-type: none"> <li>• Anyone who uses refrigerants, or appliances or systems containing them, must ensure that the refrigerants do not pose a risk to the environment, in particular by preventing emissions of refrigerants and by ensuring that wastes from such substances are appropriately disposed of</li> </ul>	
<ul style="list-style-type: none"> <li>- Dodecafluoropentane (PFC-41-12)</li> </ul>		
<ul style="list-style-type: none"> <li>- Tetradecafluorohexane (PFC-51-14)</li> </ul>		

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Hydrofluoroethers (HFEs), e.g.: - Methyl nonafluorobutyl and nonafluoroisobutyl ethers (HFE-7100) Sulphur hexafluoride SF <sub>6</sub> (R-7146) Nitrogen trifluoride	<ul style="list-style-type: none"> <li>Only persons with an appropriate certificate or a qualification regarded as equivalent, or who are acting under the supervision of such persons, are allowed to handle refrigerants on a professional or commercial basis during the manufacture, installation, maintenance or disposal of appliances or systems</li> </ul> <hr/> <p><b>Annex 2.11 (Extinguishing agents)</b></p> <ul style="list-style-type: none"> <li>Extinguishing agents which are stable in air must not enter the environment, except when used to combat fires; in particular, use in exercises and tests is prohibited</li> <li>Owners of appliances which contain extinguishing agents stable in air must have them serviced by a specialist every three years</li> <li>Owners of systems which contain extinguishing agents stable in air must have them serviced by a specialist once a year</li> </ul>	
Sulphur hexafluoride (CAS no. 2551-62-4)	See "Substances stable in atmosphere"	
Tar oils, in particular: - Creosote (CAS no. 8001-58-9) - Creosote oil (CAS no. 61789-28-4) - Distillates (coal tar), naphthalene oils (CAS no. 84650-04-4) - Creosote oil, acenaphthene fraction (CAS no. 90640-84-9) - Distillates (coal tar), upper (CAS no. 65996-91-0) - Anthracene oil (CAS no. 90640-80-5) - Tar acids, coal, crude (CAS no. 65996-85-2) - Creosote, wood (CAS no. 8021-39-4) - Low temperature tar oil, alkaline; extract residues (coal) (CAS no. 122384-78-5)	<p><b>Annex 2.4 No. 1 (Wood preservatives)</b></p> <ul style="list-style-type: none"> <li>It is prohibited to use wood treated with wood preservatives which contain tar oil</li> <li>It is prohibited to use tar oils or to store wood treated with tar oils in groundwater protection zones S1 and S2; if tar oils are used or wood treated with these products is stored in zone S3 or near waters, structural measures must be taken to prevent seepage or run-off of preservatives</li> </ul> <p>Additional obligations:</p> <ul style="list-style-type: none"> <li>Users must return wood preservatives containing tar oils for which they have no further use to a person obliged to take them back</li> <li>Wood preservatives are only to be used on a professional or commercial basis by persons with an appropriate certificate or with a qualification regarded as equivalent or who are acting under the supervision of such persons</li> </ul>	<p>The following are permitted:</p> <ul style="list-style-type: none"> <li>Use of wood treated with wood preservatives containing tar oil which contain no more than 50 mg/kg of benzo[a]pyrene for railway track installations</li> <li>Railway sleepers containing tar oil which are supplied by one rail company to another for railway track installations</li> </ul> <p>Remediation is not mandatory in cases where wood containing tar oil was used for construction purposes before the introduction of the prohibitions on use</p>

<b>Substance/Preparation/Article</b>	<b>Regulations</b>	<b>Exemptions/Transitional provisions</b>
Tar, tar oils	See "anthracene oil" and "coal tar pitch"	
Telodrin (CAS no. 297-78-9)	<b>Annex 1.2 (Halogenated organic compounds)</b> Use of telodrin, and of substances and preparations containing telodrin, is prohibited	Use for analysis and research purposes
Tetrabromodiphenyl ether	See "Brominated diphenyl ethers"	
Tetrachloroethylene (perchloroethylene)	<b>Annexes 2.1 and 2.2 (Laundry detergents and cleaning products)</b> The use of liquid halogenated organic substances in laundry detergents and cleaning agents produced for own use is prohibited	Agents not released into waste water
Tetrachlorophenols (TeCPs) and their salts and tetrachlorophenoxy compounds	<b>Annex 1.2 (Halogenated organic compounds)</b> Use of these substances, and of substances and preparations containing these substances, is prohibited	Use for analysis and research purposes
Textiles and leather goods	<b>Annex 1.13 (Azo dyes)</b> <ul style="list-style-type: none"> <li>• Textiles and leather goods must not be dyed with "blue colourant" (as specified in Annex 1.13)</li> <li>• For azo dyes used in textiles and leather goods which can release aromatic amines such as benzidine or naphthylamine, the provisions of the Ordinance on Foodstuffs and Articles of Daily Use (SR 817.02) are applicable</li> </ul>	
Thallium (Tl) and thallium compounds	<b>Annex 2.4 No. 3 (Rodenticides)</b> Use of rodenticides containing thallium is prohibited	
Toluene (CAS no. 108-88-3)	<b>Annex 1.12 (Benzene and related compounds)</b> It is prohibited to use toluene in adhesives and spray paints which are to be supplied to the general public	

<b>Substance/Preparation/Article</b>	<b>Regulations</b>	<b>Exemptions/Transitional provisions</b>
Toxaphene (CAS no. 8001-35-2)	<b>Annex 1.1 (Persistent organic pollutants)</b> Use of toxaphene and of substances and preparations containing toxaphene, is prohibited	Use for analysis and research purposes
Trialkyl and triaryl tin compounds	<b>Annex 1.14 (Organostannic compounds)</b> It is prohibited to use the following types of products which contain these substances: <ul style="list-style-type: none"> <li>• Products used to protect service water</li> <li>• Paints and varnishes</li> <li>• Antifouling products (underwater coatings)</li> </ul>	Use of paints and varnishes in which trialkyl and triaryl tin compounds are chemically bound
Trichloroethane, 1,1,1-	See "Ozone depleting substances"	
Trichloroethane, 1,1,2-	See "Solvents"	
Trichloroethylene (CAS no. 79-01-6)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b> With effect from 1 December 2019 it is prohibited to use trichloroethylene, and preparations containing this substance	See "Substances in accordance with Annex XIV, REACH Regulation"
Trichloroethylene	<b>Annexes 2.1 and 2.2 (Laundry detergents and cleaning products)</b> The use of liquid halogenated organic substances in laundry detergents and cleaning agents produced for own use is prohibited	Agents not released into waste water
Tris(2-chloroethyl) phosphate (TCEP, CAS no. 115-96-8)	<b>Annex 1.17 (Substances in accordance with Annex XIV, REACH Regulation)</b> Use of this substance and preparations containing this substance is prohibited	See "Substances in accordance with Annex XIV, REACH Regulation"

Substance/Preparation/Article	Regulations	Exemptions/Transitional provisions
Trixylyl phosphate (CAS no. 25155-23-1)	<p><b>Annex 1.17 (Substances according to Annex XIV, REACH Regulation)</b></p> <p>With effect from 2 February 2024 it is prohibited to place Trixylylphosphate, and preparations containing Trixylylphosphate, on the market</p>	See "Substances in accordance with Annex XIV, REACH Regulation"
UV absorbers	See "Phenolic benzotriazoles"	
Vinyl chloride (CAS no. 75-01-4)	<p><b>Annex 2.12 (Aerosol dispensers)</b></p> <p>Use of aerosol dispensers containing vinyl chloride is prohibited</p>	
Wood treated with wood preservatives	See "Wood preservatives"	
Wood preservatives	<p><b>Annex 2.4 No. 1 (Wood preservatives)</b></p> <ul style="list-style-type: none"> <li>• It is prohibited to use wood treated with wood preservatives which contain tar oil</li> <li>• It is prohibited to use wood preservatives or to store wood treated with these products in groundwater protection zones S1 and S2; if wood preservatives are used or wood treated with these products is stored in zone S3 or near waters, structural measures must be taken to prevent seepage or run-off of preservatives</li> <li>• Return obligation: Users must return wood preservatives for which they have no further use to a person obliged to take them back, or dispose of them at a collection centre</li> <li>• Certificate: Wood preservatives are only to be used on a professional or commercial basis by persons with an appropriate certificate or with a qualification regarded as equivalent or who are acting under the supervision of such persons</li> </ul>	<p>The following are permitted:</p> <ul style="list-style-type: none"> <li>• Use of wood treated with wood preservatives containing tar oil which contain no more than 50 mg/kg of benzo[a]pyrene for railway track installations</li> <li>• Railway sleepers containing tar oil which are supplied by one rail company to another for railway track installations</li> </ul> <p>Remediation is not mandatory in cases where wood containing tar oil was used for construction purposes before the introduction of the prohibitions on use</p>