

# Prohibited list

Epiroc is committed to provide a clean, safe and healthy environment for all employees. Use of listed substances is prohibited in products and internal and outsourced processes.



## Scope

The Prohibited list provides information about Epiroc's prohibitions on the use of listed substances in products and processes. All substances included in Epiroc's Prohibited list are prohibited to be used in any article delivered to Epiroc if not exclusively exempted. Regardless if the scope of the legal reference is limited to a product type or a region Epiroc has decided that all listed substances are prohibited in all products delivered to and sold by the Group unless else is clearly exempted in the list. All Epiroc units as well as business partners, including suppliers, contractors, subcontractors, joint venture partners, and agents must comply with these prohibitions. Compliance with Epiroc's Prohibited list is part of the Business partner Code of conduct.

If national rules are more restrictive in the individual case, such national rules must be followed.

## Requirements

A prohibition may cover a single substance, a family or a group of substances. In the list the word "several" indicates that there are more substances that are prohibited within the entry.

All intended use of any substance, family or group of substances listed in Annex A is prohibited unless an exemption is given in the Prohibited list<sup>1</sup>. A short version of the Prohibited list is shown in Annex A, not displaying all individual substances included in a family or group of substances. All individual substances, including CAS-nr, family and/or group and legal references is found in the separate document "**Epiroc Prohibited and Declarable list – full version**".

Where threshold values are given, the use of the substances above this threshold is prohibited. Substances that will soon be included in Epiroc's Prohibited list are listed in Phase-Out list in Annex B. Clarifications of the legal references are given in Annex C.

The prohibition does not apply for substances purchased to be handled in small quantities by qualified staff at laboratories in research and development.

## Radioactive substances (including scrap metal contaminants)

Epiroc Group does not accept radiating materials, such as Cobalt 60. Materials must not be radiating, not contain any radiating sources, irrespective if they are encapsulated or not, and not otherwise be contaminated by radiating material.

Radiating materials may be used in applications where they are used intentionally, for example in measuring equipment, and then only to the extent required to achieve the intended purpose.

## Changes from previous version:

No changes from previous version.

<sup>1</sup>The Prohibited substance may not occur in concentrations higher than 0.1 per cent by mass in any article or ingredient included in a product delivered to or sold by Epiroc unless stricter legal requirements apply.

# Annex A – Substances included in Prohibited list

Name (substance, family or group)	CAS No. <sup>2</sup>	Examples of known uses	Exempted uses/exemptions	Concentration limit	Legal reference
<b>Arsenic and arsenic compounds, all</b>	Several	Paints, smelted materials, biocides (including wood treatment), glasses, metal finishes, electronics	Prohibited for use in treatment of industrial waters and use of wood treated by arsenic containing mixtures.	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII Reach Candidate list (Individual substances marked in extended list) Reach Authorization list (Individual substances marked in extended list)
<b>Asbestos fibers, all</b>	Several	Insulation material, friction pads, gaskets, construction material	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Azocolourants and Azodyes, selected</b>	Several	Dyes for textiles	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Benzene</b>	71-43-2	Contaminant in chemicals, e.g. adhesives, paints etc. Fuels	The prohibition does not include benzene in motor fuel	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Brominated flame retardants</b> - Hexabromocyclododecane (HBCDD), all - Polybrominated biphenyls (PBBs), all - Polybrominated diphenyl ethers (PBDEs), all	Several	Flame retardant in electric and electronic equipment, plastics and textiles	-	In EEE <sup>3</sup> the maximum concentration of PBBs and PBDEs is 0.1% by weight in homogeneous materials. For non-EEE products the maximum concentration of 0.1% refers to any article included in a product. For DecaBDE the threshold limit is 0 and record need to be kept to show compliance	RoHS Reach Annex XVII Reach Candidate list (Individual substances marked in extended list) Reach Authorization list (Individual substances marked in extended list) Stockholm convention (POP) US TSCA
<b>Cadmium and cadmium compounds, all</b>	Several	Anti-corrosion surface treatment of metals Plating Stabilizer in polymers Pigment in paint and plastics Ni/Cd batteries and accumulators	The prohibition does not cover use in electrical contacts <b>Note!</b> Content of any cadmium compound included in Declarable list must be declared even if the use is exempted Prohibited list	In EEE the maximum concentration of 0.01% by weight is in homogeneous materials. For non-EEE products the maximum concentration of 0.01% refers to any article included in a product. Maximum concentration in batteries of 0.002% cadmium by weight of battery.	RoHS Reach Annex XVII Battery directive Reach Candidate list (Individual substances marked in extended list)
<b>Chlorinated and brominated dibenzo-p-dioxines or dibenzofuranes, all</b>	Several	By-product from industrial processes	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Stockholm Convention (POP)
<b>Chromium, hexavalent (CrVI) compounds, all</b>	Several	Electrical and electronic equipment (e.g. catalysts, plating, surface treatment) Surface treatment Metal finishing Conversions coatings Pigment (paint, dye etc.)	The prohibition does not cover use for anti-corrosion of carbon steel for cooling systems in absorption refrigerators <b>Note!</b> Content of any hexavalent chromium-compound included in Declarable list must be declared even if the use is exempted Prohibited list	In EEE the maximum concentration of 0.1% by weight is in homogeneous materials. For non-EEE products the maximum concentration of 0.1% refers to any article included in a product.	RoHS Reach Candidate list (Individual substances marked in extended list) Reach Authorization list (Individual substances marked in extended list)
<b>1,1-Dichloroethene</b>	75-35-4	Plastic materials (Residues from production) Degreasing agent	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Dichloromethane (Methylene chloride)</b>	75-09-2	Solvent in paint-strippers and removers	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Fluorinated greenhouse gases, selected</b> - Hydrofluorocarbons (HFCs), all - Perfluorocarbons (PFCs), all - Sulphur hexafluoride	Several Several 2551-62-4	Refrigerant applications	Substances with a global warming potential (GWP) above 2500 are Prohibited. Gas mixtures for which the (calculated) GWP is below 2500 are exempted. Individual fluorinated greenhouse gases - regardless of GWP - remain declarable. Reclaimed or recycled gas mixtures with (calculated) GWP above 2500 used for maintenance or servicing are exempted from the prohibition until January 1, 2030	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Kyoto Protocol (GWP for individual substances given in extended list)

<sup>2</sup>CAS is the abbreviation for Chemical Abstract Service registry number. This is an international numeric identifier which designates only one chemical substance

<sup>3</sup>EEE: abbreviation for electric and electronic equipment

Name (substance, family or group)	CAS No. <sup>2</sup>	Examples of known uses	Exempted uses/exemptions	Concentration limit	Legal reference
<b>Halogenated diphenylmethanes, selected</b> <ul style="list-style-type: none"> <li>- Monomethyldibromodiphenylmethane (DBBT)</li> <li>- Monomethyldichlorodiphenylmethane (Ugilec 121)</li> <li>- Monomethyltetrachlorodiphenylmethane (Ugilec 141)</li> </ul>	99688-47-8 81161-70-8 76253-60-6	Residues and decomposition products in production of polymers	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Lead and lead compounds, all</b>	Several	Electrical and electronic equipment (e.g. free-machining alloy, free-cutting steels, optical materials, solder, curing agents, ferroelectrics) Cables, Stabilizer in plastic Metal alloy, Plating, Batteries, Pigment in paint and plastic	The prohibition does not include the use in bearing shells and bushes, high melting temperature solders, solders for servers and network equipment or electronic ceramic parts and batteries. <b>Note!</b> Content of lead or other lead compound included in Declarable list must be declared even if the use is exempted Prohibited list	In EEE maximum concentration of 0.1 % by weight is in homogeneous materials. For non-EEE products the maximum concentration of 0.1 % refers to any article included in a product. Steel alloy may contain up to 0.35% lead. Aluminum alloy may contain up to 0.4 % lead. Copper alloy may contain up to 4% lead.	RoHS Reach Annex XVII (Individual substances marked in extended list) Reach Candidate list (Individual substances marked in extended list) Reach Authorization list (Individual substances marked in extended list)
<b>Mercury and mercury compounds, all</b>	Several	Electrical and electronic equipment (e.g. contact point material, switches, anti-corrosion) Instrumentation Lightening equipment Batteries/accumulators (e.g. silver-oxide button cells, alkaline batteries, zinc carbon batteries)	Use in some lamps for special purposes are exempted (2011/65/EU)	In EEE maximum concentration of 0.1 % by weight is in homogeneous materials. Batteries may contain no more than <b>0,0005%</b> mercury by weight For non-EEE products the maximum concentration of 0.1 % refers to any article included in a product	RoHS Battery directive
<b>N-Methyl-pyrrolidone (NMP) – moved to list for processes</b>	872-50-4	Solvent stripper	-	May not exceed 0.3% in any chemical	Reach Annex XVII Reach Candidate list
<b>2-Naphtylamine and its salts</b>	Several	Impurity in dye; Antioxidant in lubricants, rubber/latex and plastics	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII
<b>4-Nitrobiphenyl and its salts</b>	92-93-3	Impurity in dye; Antioxidant in lubricants, rubber/latex and plastics	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Nonylphenol and nonylphenoethoxylates, all</b>	Several	Residues on metals, leather and textiles from their processing. Surfactants in cleaning agents, metal-working fluids, lubricants etc., Hardener in paint and plastics	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII Reach Candidate list (Individual substances marked in extended list)
<b>Organotin compounds, all</b>	Several	Stabilizer for PVC; Biocide, antifungal in industrial cooling systems and paints	Prohibited for use as biocide	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII Reach Candidate list (Individual substances marked in extended list)
<b>Ozone depleting substances, all</b> <ul style="list-style-type: none"> <li>- Chlorofluorocarbons (CFCs), all</li> <li>- Halons, all</li> <li>- Hydrobromofluorocarbons (HBFCs), all</li> <li>- Hydrochlorofluorocarbons (HCFCs), all</li> <li>- Methylbromide</li> <li>- Trichloroethane (all isomers)</li> </ul>	Several	Refrigerant, foaming agent, extinguishant, solvent, cleaner Paint, aerosol propellant, adhesives	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Montreal Protocol

Name (substance, family or group)	CAS No. <sup>2</sup>	Examples of known uses	Exempted uses/exemptions	Concentration limit	Legal reference
<b>PAHs (Polycyclic aromatic hydrocarbons), selected</b> - Benzol[al]pyrene (BaP) - Benzol[e]pyrene (BeP) - Benz[el]acephenanthrylene (BaA) - Chrysen (CHR) - Benol[b]fluoranthene (BbFA) - Benzol[j]fluoranthene (BjFA) - Benol[k]fluoranthene (BkFA) - Dibenzol[a,h]anthracene (DBAhA)	50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3	Extender oils in tyres, base oils, rubber	-	Extender oils used may not contain more than 1 ppm Benso(a) pyren (BaP) nor may the sum of the 8 listed PAHs exceed 10 ppm.	Reach Annex XVII Reach Candidate list (Individual substances marked in extended list)
<b>Pentachloroethane</b>	76-01-7	Solvent for oil and grease, metal cleaning	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Pentachlorophenol (PCP) and its salt and esters, all</b>	87-86-5	Wood preservative, salts used in leather treatment, stabilizer for latex	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Pentachlorothiophenol (PCTP)</b>	133-49-3	Plasticizer in rubberized parts, e.g. hydraulic system gaskets and seals	-	Maximum concentration of <1% refers to any article or ingredient included in a product. Note! Record need to be kept to show compliance	US TSCA
<b>C9-C14 linear and/or branched perfluorocarboxylic acids (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related substances, including their salts and precursors</b> - perfluorononan-1-oic acid (PFNA) - nonadecafluorodecanoic acid (PFDA) - hencosafluoroundecanoic acid (PFUnDA) - tricosafuorododecanoic acid (PFDoDA) - pentacosafuorotridecanoic acid (PFTTrDA) - heptacosafuorotetradecanoic acid (PFTDA)	several 375-95-1 335-76-2 2058-94-8 307-55-1 72629-94-8 376-06-7	lubricating oil additive, fire extinguishers, cleaning agent, in liquid crystal display panels. Lubricant, wetting agent, plasticizer and corrosion inhibitor etc	-	Prohibited to be present in any item in concentrations above 25 ppb for the sum of C9-C14 PFCAs and their salts or 260 ppb for the sum of C9-C14 PFCA-related substances.	Reach Annex XVII
<b>Perfluorinated alkrylcarboxylic acid (PFOA) and its salt</b>	335-67-1 Several	Coatings (e.g. Teflon), surfactants, fire-fighting foams, textiles and papers	-	Prohibited to be present in any item in concentrations above 25 ppb of PFOA or PFOAS-salts, or 1000 ppb of any combination of PFOA-related substances	Reach Annex XVII
<b>PFHxS (Perfluorohexansulfonic acid, its salts and PFHxS related compounds, all</b> - Perfluorohexanesulfonic acid - Perfluorohexanesulfonylfluoride - Perfluorohexanesulfonate ammonium salt - Potassium N-ethyl-N-(tridecafluorohexyl) sulfonyl)glycinate	several 355-46-4 423-50-7 68259-08-5 67584-53-6	Metal plating, polishing cleaning agents, coatings, impregnation for protection from damp, fungus etc.); manufacturing of electronics and semiconductors	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Stockholm convention (POP)
<b>Perfluorooctane sulfonates, PFOS, all</b>	Several	Surface coating, surfactants, ingredient in the textile protective treatment	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Stockholm Convention (POP)

Name (substance, family or group)	CAS No. <sup>2</sup>	Examples of known uses	Exempted uses/exemptions	Concentration limit	Legal reference
<b>Pesticides (Biocides and Plant protection products (PPP)), selected</b> - Aldrin - Chlordane - Chlordecone - Dieldrin - Endosulfan - α- Endosulfan - β-Endosulfan - Endrin - Heptachlor - Hexachlorobenzene - α-HCH - β-HCH - Lindane (γ-HCH) - Hexachlorobutadiene - Mirex - Pentachlorobenzene - Pentachlorophenols (PCPs) - Toxaphen - Dimethylfumarate	309-00-2 57-74-9 143-50-0 60-57-1 115-29-7 959-98-9 33213-65-9 72-20-8 76-44-8 118-74-1 319-84-6 319-85-7 58-89-9 87-68-3 2385-85-5 608-93-5 Several 8001-35-2 624-49-7	Pesticides  Solvent in rubber manufacturing and in hydraulic, heat transfer or transformer fluid  Prevent modling during transport and storage	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.  Note! For hexachlorobutadiene (CAS 87-68-3) the threshold limit is 0 and a record need to be kept to show compliance	Stockholm Convention (POP)  US TSCA  Reach Annex XVII
<b>Phenol, isopropylated phosphate (3:1) or PIP 3:1</b>	68937-41-7	Flame retardant and plasticizer in wire covers and castings and as a functional fluid in industrial machinery	Recycled plastic, lubricants and grease is exempted	No concentration limit. <b>Note!</b> Record need to be kept to show compliance	US TSCA
<b>Phthalates, selected</b> - Bis(2-ethylhexyl)phthalate (DEHP) - Diisobutyl phthalate (DIBP) - Benzyl buthyl phtalate (BBP) - Dibutyl phthalate (DBP)	117-81-7 84-69-5 85-68-7 84-74-2	Plastiziser in rubber and plastics	-	In EEE maximum concentration of 0.1% by weight is in homogenous materials. For non-EEE products the maximum concentration of 0.1 % refers to any article included in a product.	EU RoHS Reach Candidate list Reach Authorization list
<b>Polychlorinated biphenyls (PCBs), all</b>	Several	Insulation fluid in electrical systems, switch boards, transformer oil	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Stockholm Convention (POP)
<b>Polychlorinated naphtalenes (PCN), all</b>	Several	-	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Stockholm Convention (POP)
<b>Polychlorinated terphenyls (PCTs), all</b>	61788-33-8	Insulation fluid in electrical systems, switch board transformers and condensers Wood and paper impregnation Softening agent	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Short chain chloro paraffins (SCCP)</b>	85535-84-8	Plasticizer and flame retardant for PVC and rubber	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Candidate list
<b>Tetrachloethane,</b> - 1,1,1,2-Tetrachloroethane - 1,1,2,2-Tetrachloroethane	630-20-6 79-34-5	Solvent, cleaning and degreasing of metals, paint removers, varnishes and lacquers	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Trichlorobenzene</b>	120-82-1	Solvent, dielectric fluid, degreaser, lubricant.	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Trichloroethane, all</b> - 1,1,1-Trichloroethane - 1,1,2-Trichloroethane	71-55-6 79-00-5	Solvent for chlorinated rubbers, fats, oils, waxes, and resins	-	Maximum concentration of 0.1 % refers to any article or ingredient included in a product.	Reach Annex XVII Montreal Protocol

Name (substance, family or group)	CAS No. <sup>2</sup>	Examples of known uses	Exempted uses/exemptions	Concentration limit	Legal reference
<b>Trichloromethane (Chloroform)</b>	67-66-3	Solvent	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII
<b>Triorganotin compounds, all</b>	Several	Antifungal agents in industrial cooling systems, antifungal paints and agricultural	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII Reach Candidate list (Individual substances marked in extended list)
<b>Vinyl chloride (Monomer)</b>	75-01-4	Plastic materials (Residues from production)	-	Maximum concentration of 0.1% refers to any article or ingredient included in a product.	Reach Annex XVII

## Annex A - Substances prohibited to be used in chemicals used in processes

The substances below are prohibited to be present in chemicals used in processes <sup>4</sup>	CAS No.	Exempted uses	Legal scope
<b>NN-dimethylformamide</b>	68-12-2	Chemicals use in processes may not contain < 0.3 % unless proper risk management measures and provide appropriate operational conditions to ensure that exposure of workers is below DNEL	Reach Annex XVII, entry 76
<b>N-Methyl-pyrrolidone (NMP) – moved from Prohibited list as ban limited to processes</b>	872-50-4	Must not exceed 0,3% in any chemical	Reach Annex XVII, entry 71 Reach Candidate list
<b>Diisocyanates, all</b>	several	Prohibited to be present in any chemicals above 0.1 % (individual or in combination) unless the user has successfully completed training on the safe use of diisocyanates prior to the use	Reach Annex XVII, entry 74
<b>4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol</b>	9002-93-1	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol</b>	2497-59-8	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethan-1-ol</b>	2315-67-5	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>2-[2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethoxy]ethanol</b>	2315-61-9	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>4-Nonylphenol, branched and linear, ethoxylated</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenol, ethoxylated</b>	9016-45-9	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>2-[2-[2-[4-(nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol</b>	7311-27-5	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenol, branched, ethoxylated</b>	68412-54-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>4-Nonylphenol, ethoxylated</b>	26027-38-3	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>2-[2-[4-(nonylphenoxy)ethoxy]ethanol</b>	20427-84-3	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol</b>	27942-27-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenol, branched, ethoxylated (CAS# 68412-54-4)</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenol, ethoxylated (15-EO) (9016-45-9)</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenol, ethoxylated (10-EO) (9016-45-9)</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenol, ethoxylated (8-EO) (9016-45-9)</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenol, ethoxylated (6,5-EO) (9016-45-9)</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>26-(4-nonylphenoxy)-3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol</b>	14409-72-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>Nonylphenolpolyglycoether</b>	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
<b>26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol</b>	26571-11-9	May be used if an authorization has been granted	Reach Annex XIV (authorization)

<sup>4</sup>May be present if an authorization is granted.

The substances below are prohibited to be present in chemicals used in processes <sup>4</sup>	CAS No.	Exempted uses	Legal scope
Nonylphenol, ethoxylated (EO = 10)	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Nonylphenol, ethoxylated (EO = 4)	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
4-Nonylphenol, branched, ethoxylated	127087-87-0	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2-[2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy]ethanol	1119449-38-5	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy- (CAS 9016-45-9)	9016-45-9	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Isononylphenol, ethoxylated	37205-87-1	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol	1119449-37-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Nonylphenol, ethoxylated (polymer)	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	May be used if an authorization has been granted	Reach Annex XIV (authorization)
4,4'- Diaminodiphenylmethane (MDA)	101-77-9	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2,5,6,9,10-hexabromocyclododecane	3194-55-6	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Diarsenic trioxide	1327-53-3	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Diarsenic pentaoxide	1303-28-2	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Tris(2-chloroethyl) phosphate	115-96-8	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2,4-dinitrotoluene (2,4-DNT)	121-14-2	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Trichloroethylene	79-01-6	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Arsenic acid	7778-39-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Bis(2-methoxyethyl) ether	111-96-6	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-dichloroethane (EDC)	107-06-2	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1-bromopropane (n-propyl bromide)	106-94-5	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Bis(2-methoxyethyl) phthalate	117-82-8	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Dipentyl phthalate	131-18-0	May be used if an authorization has been granted	Reach Annex XIV (authorization)

The substances below are prohibited to be present in chemicals used in processes <sup>4</sup>	CAS No.	Exempted uses	Legal scoop
n-pentyl-isopentylphthalate	776297-69-9	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Anthracene oil	90640-80-5	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Pitch, coal tar, high-temp.	65996-93-2	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Dihexyl phthalate	84-75-3	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Trixylyl phosphate	25155-23-1	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Sodium perborate, perboric acid, sodium salt	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Perboric acid, sodium salt	11138-47-9	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Sodium perborate	15120-21-5	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Sodium peroxometaborate	7632-04-4	May be used if an authorization has been granted	Reach Annex XIV (authorization)
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]	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexene-1-yl)-5-methyl-5-(1-methylpropyl)-	117933-89-8	May be used if an authorization has been granted	Reach Annex XIV (authorization)
Reaction mass of 5-[(2R)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1R,2S)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1S,2S)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,2S)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2-(2,4-Dimethylcyclohex-3-ene-1-yl)-5-methyl-(1-methylpropyl)-1,3-dioxane	117933-89-8	May be used if an authorization has been granted	Reach Annex XIV (authorization)
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	May be used if an authorization has been granted	Reach Annex XIV (authorization)
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	May be used if an authorization has been granted	Reach Annex XIV (authorization)

## Annex B Phase-out list – Substances to be included in Prohibited list

Name (substance, family or group)	CAS No.	Examples of known uses	When prohibited	Reason for inclusion	Legal scope
2,4,6-tris(tert-butyl)phenol or 2,4,6 TTBP	2732-26-3	Chemicals use in processes may not contain < 0,3 %	January 6, 2026	US TSCA	Chemicals use in processes may not contain < 0,3 %

## Substances to be prohibited to be present in chemicals used in processes

Name (substance, family or group)	CAS No.	When prohibited	Legal scope
<b>The substances below are to be prohibited to be present in chemicals;</b>			
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	15571-58-1	1/05/2025	Reach Annex XIV (authorization)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	1/05/2025	Reach Annex XIV (authorization)
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[[2-ethylhexyl]oxyl-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	1/05/2025	Reach Annex XIV (authorization)
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	1/05/2025	Reach Annex XIV (authorization)
Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine	93925-00-9	1/05/2025	Reach Annex XIV (authorization)
Formaldehyde, reaction products with phenol heptyl derivs. and 1,3,4-thiadiazolidine-2,5-dithione	1471311-26-8	1/05/2025	Reach Annex XIV (authorization)
Tetraethyllead	78-00-2	1/05/2025	Reach Annex XIV (authorization)

## Annex C – Clarification of legal references and scope

---

- + **Scope:** All substances included in Epiroc Prohibited list are prohibited to be used in any article delivered to Epiroc if not exclusively exempted. Regardless if the scope of the legal reference is limited to a product type or a region Epiroc has decided that all listed substances are prohibited in all products delivered to and sold by the Group unless else is clearly exempted in the list.
- + **Phase-out list:** contains substances that we want to highlight since they will soon be added to the Prohibited list. Information about when the substances will be added to Prohibited list, in what regulation the substances are included, and in what products/materials the substance is known to be found in is given in this list. This list is short and meant to highlight needs for urgent substitution.
- + **RoHS<sup>5</sup> (abbreviation of Restriction of Hazardous substances)** is a legislation banning use of hazardous substances in electric and electronic equipment to facilitate recycling. RoHS bans the use of lead, mercury, hexavalent chromium, cadmium, the brominated flame retardants PBDE and PBB and the plasticizers DEHP, DIBP, BBP and DBP in electric and electronic equipment (EEE), including cables and spare parts. Many components and spare parts incorporated in or used with Epiroc equipment are covered by this legislation when sold as individual parts.

To ensure compliance with this regulation Epiroc ban the use of these substances in concentrations above 0.1 % (0.01% for cadmium) in processes and any item delivered to the Group. For electric and electronic equipment (EEE), including cables and spare parts, the prohibition is valid for any homogenous material. For non-EEE the prohibition is valid for any individual article assembled in a product delivered to Epiroc.

- + **REACH<sup>6</sup> (abbreviation for Restriction, Evaluation, Authorisation and restriction of CHemicals)** is the name of EU's chemicals legislation. As chemicals are components in products and processes used in our industry, some parts of REACH applies to Epiroc. By **REACH compliance** Epiroc means that content above 0.1 % of any substance included in the Candidate list is declared and no substance is used in contradiction to the restrictions in Annex XVII.
- + **REACH Candidate list** is a list of substances identified to have long term negative effects on health and the environment (e.g. carcinogenic, mutagenic or reprotoxic (CMR), endocrine disruptors or persistent, bioaccumulative and toxic for the environment (PBT and vPvB)). These substances are also known as Substances of Very High Concern and the list as SVHC-list.

Information about content of any substance included in the Reach Candidate list of Substances of Very High Concern in concentrations above 0,1 % must be provided to Epiroc. The information must be provided for all individual articles assembled in any product delivered to Epiroc.

If any individual article contains substances included in the Candidate list Epiroc must actively provide such information to our customers. This requirement is stated in Article 33 of REACH. New substances are added to the Candidate list twice annually with instant duty to inform customers.

All substances in the Candidate list are included in the **Declarable list** unless they are also regulated by a more strict legislation. If regulated by a more strict regulation the substance is included in the Prohibited list.

- + **REACH Authorisation list (REACH Annex XIV):** Some of the substances in the Candidate list are also included in REACH Authorisation list, meaning that after a sunset date they cannot be used without a permit within EU. Those substances are included in Epiroc Phase-Out List until the sunset date is passed. After the sunset date the substances are moved to Epiroc Prohibited list for use in processes (chemicals).
- + **Reach Annex XVII** contains a list of substances for which the manufacturing, placing on the market or use (on its own, in mixtures or in an article) is limited or banned in European Union. The list contains substances that pose an unacceptable risk to human health or to the environment. To ensure compliance for Epiroc products, all relevant substances/entries in Reach Annex XVII are included in the Epiroc **Prohibited list** or **Declarable list**.

---

<sup>5</sup>RoHS – Restriction of Hazardous Substances in electric and electronic equipment (2011/65/EU).

<sup>6</sup>REACH – Registration, Evaluation, Authorization and restriction of Chemicals (EC 1907/2006)

- + **Battery regulation<sup>7</sup> (EU 2023/1542)** bans the use of cadmium (Cd) and mercury (Hg) in batteries to lower the negative impact on environment for waste batteries. Batteries must not contain more than 0.002% (20 ppm) Cd or 0.0005 % (0.5 ppm) Hg. Portable batteries may not contain more than 0.01% (100 ppm) lead (Pb).
- + **TSCA (Abbreviation of Toxic Substance Control Act):** is a US legislation to regulate chemicals that pose a risk to health or the environment. TSCA ban the use of some substances in processes and products, import included. Additionally, companies are required to keep records to show compliance.
- + **Kyoto Protocol (Greenhouse gases):** is an international agreement to fight global warming by reducing greenhouse gas concentrations in the atmosphere. Epiroc follows EU:s interpretation and prohibit any products to contain substances with a global warming potential (GWP) above 2500. Content of greenhouse gases identified to have a GWP below 2500 in concentrations above 0,1% should be declared.
- + **Montreal Protocol on Substances that Deplete the Ozone Layer:** is designed to protect the ozone layer by phasing out the production of groups of halogenated hydrocarbons that are responsible for ozone depletion. Epiroc prohibits the use of any of the controlled substances in the Protocol. All substances included in the Montreal protocol are included in Epiroc Prohibited list.
- + **Stockholm Convention on Persistent Organic Pollutants (POPs):** is designed to eliminate or restrict the production and use of substances that persist in the environment, bio-accumulate through the food web, and pose a risk of causing adverse effects to human health and the environment. All substances included in the Stockholm Convention is included in Epiroc Prohibited list.

---

<sup>7</sup>Battery directive – Batteries, accumulators and waste batteries and accumulators (2006/66/EC)

# United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

**[epiroc.com](https://www.epiroc.com)**

