

Declarable list

Epiroc is committed to provide clean, safe and healthy environment for all employees. Use of listed substances must be declared.



Scope

Certain substances may have an adverse effect on human health or the environment. The use of some of those substances are limited through legislation in many countries. Some substances are prohibited in products and processes, other needs to be phased-out and declared. The Declarable list provides information about substances that should be limited in use. In addition, all Epiroc units as well as business partners, including suppliers, contractors, subcontractors, joint venture partners, and agents must declare any use of listed substances in items delivered by or to Epiroc. Compliance with Epiroc Group Declarable list is part of the 10-criteria letter for suppliers.

Information on prohibited substances can be found in the Epiroc Group Prohibited list.

If national rules are more restrictive and prohibits a substance in the Declarable list such national rules must be followed.

Requirements

A substance can be both prohibited and declarable depending on the application of use. Each entry can cover one single substance or a group of substances; in that case this is indicated by "Several". The duty to declare content of a substance in the list refers to concentrations exceeding 0.1 percent by mass of any individual article assembled in any product delivered to Epiroc.

Conflict minerals

Conflict minerals are minerals whose trade, taxation or protection can directly or indirectly finance armed groups and further the conflict in regions as defined by UN. These minerals include columbite-tantalite (coltan), cassiterite, gold, wolframite or their derivatives. Common derivatives of these minerals are tantalum, tin, tungsten and gold and are included in this definition.

Upon request, suppliers must disclose the presence of conflict minerals and due-diligence progress, according to industry standard and report the results with reasonable certainty..

Changes from previous version

4 substances; 2-methoxyethyl acetate; Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP); 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) and 4-tert-butylphenol has been added due to inclusion in EU Candidate list July 2019.

Annex A – Substances included in Declarable list

Name (substance, family or group)	CAS no. ¹	Examples of known uses	Exempted uses/ Exemptions	Reason for inclusion (legal reference)
Acrylamide	79-06-1	Fillers	-	Reach Candidate list
4-Aminoazobenzene	60-09-3	Dye	-	Reach Candidate list
o-Aminoazotoluene	97-56-3	Dye, ink	-	Reach Candidate list
[4-[4-anilino-1-naphthyl]4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	Inks, dyes, paints, and pigments	-	Reach Candidate list
Arsenic and arsenic compounds, all	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. All other uses Declarable	Reach Annex XVII Reach Candidate list (individual substances marked in extended list) Reach Authorization list (individual substances marked in extended list)
Benzotriazoles, selected • 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) • 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) • 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) • 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3846-71-7 25973-55-1 36437-37-3 3864-99-1	UV-absorber in plastic, rubber and polyurethanes	-	Reach Candidate list
Benzene – 1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	Manufacture of polymers	-	Reach Candidate list
Benzophenone	191-24-2	Impurity	-	Reach Candidate list
4-[4,4'-Bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene dimethyl-ammoniumchlorid (C.I. Basic Violet 3)	548-62-9	Dye, ink	-	Reach Candidate list
4,4'-Bis(dimethylamino) benzophenone	90-94-8	Intermediate in manufacturing of paint and coloring agent	-	Reach Candidate list
4,4'-Bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	Dye, ink	-	Reach Candidate list
α, α-Bis(4-(dimethylamino)phenyl)-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	Dye, ink and in wind screen fluid	-	Reach Candidate list
1,2-Bis(2-methoxy)ethane (TEGDME, triglyme)	112-49-2	Solvent	-	Reach Candidate list
Bis(2-methoxyethyl) ether (diglyme)	111-96-6	Solvent, Production of rubber and plastics, In sealed batteries	-	Reach Candidate list Reach Authorization list
Bisphenol A, BPA (4,4'-isopropylidenediphenol)	80-05-7	Manufacturer of polycarbonate (PC), Hardener in epoxy resins	-	Reach Candidate list
Boron compounds, selected	Several	Biocide in adhesives and cutting fluids, cleaning fluids, detergents etc., Flame retardants	-	Reach Candidate list
1-Bromopropane	106-94-5	Solvent for adhesives and degreasing products	-	Reach Candidate list
Cadmium and cadmium compounds	Several	Electrical contacts	-	Reach Candidate list
Chromium, hexavalent (CrVI) compounds	Several	Anti-corrosion of carbon steel for cooling systems in absorption refrigerators	-	Reach Candidate list
Coal tar products, Selected • Pitch, coal tar, high-temp., Pitch	65996-93-2	Steel construction, rubber, electrodes	-	Reach Candidate list
Cobalt and cobalt compounds, selected	Several	Lubricants, catalyst, pigments, surface treatments, batteries	-	Reach Candidate list
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	Production of polyurethane (PUR)	-	Reach Candidate list Reach Authorization list
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Blowing agent in rubber and plastics production	-	Reach Candidate list
1,2-Dichloroethane (EDC)	107-06-2	Degreasing agent, additive for fuels	-	Reach Candidate list Reach Authorization list

¹ CAS is the abbreviation for Chemical Abstract Service registry number. This is an international numeric identifier which designates only one chemical substance

Name (substance, family or group)	CAS no. ¹	Examples of known uses	Exempted uses/ Exemptions	Reason for inclusion (legal reference)
2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Production of polyurethane	-	Reach Candidate list Reach Authorization list
1,2-Diethoxyethane	629-14-1	Solvent	-	Reach Candidate list
Diethyl sulphate	64-67-5	Intermediate	-	Reach Candidate list
1,2-Dimethoxyethane (EGDME)	110-71-4	Electrolyte in lithium batteries	-	Reach Candidate list
N,N-Dimethylacetamide	127-19-5	Solvent in paint strippers and production of polyimide films	-	Reach Candidate list
N,N-Dimethylformamide	68-12-2	Solvent mainly in paint and varnish	-	Reach Candidate list
p- (1,1-dimethylpropyl)phenol	80-46-6	Manufacture of chemicals and plastic products	-	Reach Candidate list
Dimethyl sulphate	77-78-1	Intermediate	-	Reach Candidate list
2,4-Dinitrotoluene	25321-14-6, 121-14-2	Airbags, Explosives, polyurethane foam	-	Reach Candidate list Reach Authorization list
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	Pesticide (plant protection)	-	Reach Candidate list
1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.1 ^{6,9} .0 ^{2,13} .0 ^{5,10}] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	Glue, sealants and electronics	-	Reach Candidate list
Diorganotin compounds, all	Several	Plastics	Prohibited for use as biocide all other uses are Declarable	Reach Annex XVII Reach Candidate list
2-Ethoxyethanol	110-80-5	Solvent in paint	-	Reach Candidate list
2-Ethoxyethyl acetate	111-15-9	Solvent mainly in paint and varnish	-	Reach Candidate list
Ethylenediamine (EDA)	107-15-3	Adhesives, sealants, coatings, fillers, water treatment products etc.	-	Reach Candidate list
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	-	-	Reach Candidate list
Fluorinated greenhouse gases, selected • Hydrofluorocarbons (HFCs), all	Several	Refrigerant	Substances with a GWP below 2500 are Declarable. Substances with a global warming potential (GWP) above 2500 are Prohibited.	Kyoto Protocol
Formaldehyde, oligomeric reaction product with aniline	25214-70-4	Polyurethanes, Thermoplastic resins, Coatings	-	Reach Candidate list Reach Authorization list
Formamide	75-12-7	Solvent, Plasticizer	-	Reach Candidate list
Furan	110-00-9	Solvent	-	Reach Candidate list
4-heptylphenol, branched and linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly Position 4 to phenol, covering also UVCB-and well-defined substances	-	Manufacture of polymers, lubricants	-	Reach Candidate list
Hydrazine	302-01-2, 7803-57-8	Corrosion inhibitor	-	Reach Candidate list
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	Used in rubber manufacturing	-	Reach Candidate list
Karanal (5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [I] and 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane)	-	Fragrance	-	Reach Candidate list
Lead and lead compounds	Several	Bearing shells and bushes, high melting temperature solders, solders for servers and network equipment or electronic ceramic parts	-	Reach Candidate list
Medium chained chloro paraffines (MCCP)	85535-85-9	Metal cutting fluids	-	Suggested for inclusion in RoHS
Methoxy acetic acid	625-45-6	Plasticizer, Coloring agent, Auxiliary agent in the textile industry	-	Reach Candidate list
2-Methoxyaniline (o-anisidine)	90-04-0	Dye	-	Reach Candidate list
2-Methoxyethanol	109-86-4	Solvent for dyes, inks, stains, cleaning agents, Grease and paint removers, Antifreeze, Electrolyte, Electrodes, L-Mn battery, Starters, Sensors agents in polyester resins, PES-fibers, PES- and PU-enamels, Synthetic resins, Softening	-	Reach Candidate list

Name (substance, family or group)	CAS no. ¹	Examples of known uses	Exempted uses/ Exemptions	Reason for inclusion (legal reference)
2-methoxyethyl acetate	110-49-6	Solvent for resins, oils, grease etc.		Reach Candidate list
6-Methoxy-m-toluidine (p-cresidine)	120-71-8	Intermediate in production of dye and pigment	-	Reach Candidate list
N-Methylacetamide	79-16-3	Solvent	-	Reach Candidate list
4,4'-Methylenedi-o-toluidine	838-88-0	Intermediate for pigments, textiles	-	Reach Candidate list
Methyloxiran (propylene oxide)	75-56-9	Monomer in production of polymers,	-	Reach Candidate list
4-Methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	Intermediate for production of pigments and toluene diisocyanate	-	Reach Candidate list
N-Methyl-pyrrolidone	872-50-4	Solvent	-	Reach Candidate list
Musk xylene	81-15-2	Mainly used as scent in cleaning products and metal polish	-	Reach Candidate list Reach Authorization list
Nitrobenzene	98-95-3	Manufacture of aniline, a chemical used in the manufacture of polyurethane.	-	Reach Candidate list
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	Lubricant, wetting agent, plasticizer and corrosion inhibitor	-	Reach Candidate list
4,4'-Oxydianiline and its salts	101-80-4	Intermediate	-	Reach Candidate list
PAHs (Polycyclic aromatic hydrocarbons), selected • Anthracene • Anthracene oil • Anthracene oil, anthracene paste • Anthracene oil, anthracene-low • Anthracene oil, anthracene paste, anthracene fraction • Anthracene oil, anthracene paste, distn. lights	120-12-7 90640-80-5 90640-81-6 90640-82-7 91995-15-2 91995-17-4	Manufacturing of anthracene and carbon black	-	Reach Candidate list
Perfluorinated alkylcarboxylic acid (PFOA), selected	Several	Impregnating agent in textiles, carpets, furniture, floor wax and paint	Must be declared if present in concentrations above 25 ppb	Reach Annex XVII Reach Candidate list
Perfluorohexane-1-sulphonic acid (PFHxS) and its salts	Several	Lubricants, firefighting agents, surface treatment (corrosion inhibitor), plasticizer in plastic	-	Reach Candidate list
Perfluorononan-1-oi-c-acid and its sodium and ammonium salts (PFNA)	375-95-1 21049-39-8 4149-60-4	lubricating oil additive, fire extinguishers, cleaning agent, in liquid crystal display panels	-	Reach Candidate list
Phenolphthalein	77-09-8	Laboratory chemical	-	Reach Candidate list
Phthalates, selected • Bis(2-methoxyethyl) phthalate • Dipentyl phthalate (DPP) • Diisopentylphthalate (DIPP) • 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkylesters • 1,2-benzenedicarboxylic acid, dihexyl ester, branched and linear • 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich • N-Pentyl-isopentyl phthalate • Dihexyl phthalate • 1,2-benzendicarboxylic acid, dipentylester, branched and linear • 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) Dicyclohexyl phthalate (DCHP)	117-82-8 131-18-0 605-50-5 68515-42-4 68515-50-4 71888-89-6 776297-69-9 84-75-3 84777-06-0 68515-51-5, 68648-93-1 84-61-7	Plasticizer in rubber and plastic, paints	-	Reach Candidate list
Phthalic anhydrids, selected • Hexahydromethylphthalic anhydride • Cyclohexane-1,2-dicarboxylic anhydride	Several	Manufacture of polyester, alkyd resins Plasticizers for thermoplastic polymers	-	Reach Candidate list
1,3-propanesultone	1120-71-4	Electrolyte fluid of lithium ion batteries	-	Reach Candidate list
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear	-	-	-	Reach Candidate list

Name (substance, family or group)	CAS no. ¹	Examples of known uses	Exempted uses/ Exemptions	Reason for inclusion (legal reference)
Refractory ceramic fibres (RCF), selected • Zirconia Aluminosilicate Refractory Ceramic Fibres • Aluminosilicate Refractory Ceramic Fibres	- -	Fire protection, High-temperature insulation	-	Reach Candidate list
Siloxanes, selected • Octamethylcyclotetrasiloxane (D4) • Decamethylcyclopentasiloxane (D5) • Dodecamethylcyclohexasiloxane (D6)	556-67-2 541-02-6 540-97-6	Washing and cleaning products, waxes and polishes	-	Reach Candidate list
Terphenyl hydrogenated	61788-32-7	Plastic additive, solvent, adhesives, heat transfer fluids etc.	-	Reach Candidate list
4-tert-butylphenol	98-54-4	Coatings, polymers, adhesives etc		Reach Candidate list
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	Production of fluorinated polymers		Reach Candidate list
4-(1,1,3,3-Tetramethylbutyl)phenol	140-66-9	Adhesive, Coatings, Inc	-	Reach Candidate list
4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated	-	Paint, coating products	-	Reach Candidate list
N,N,N',N'-Tetramethyl-4,4'-methylenedianiline	101-61-1	Dye, Electric and electronic equipment, Pigment	-	Reach Candidate list
o-Toluidine	95-53-4	Intermediate for dyes	-	Reach Candidate list
Trichloroethylene (TCE)	79-01-6	Degreasing agent, Adhesives	-	Reach Candidate list Reach Authorization list
1,2,3-Trichloropropane	96-18-4	Synthesis chemical	-	Reach Candidate list
Triglycidylisocyanurate (TGIC) • 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC) • 1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione (β-TGIC)	2451-62-9 59653-74-6	Goods of metal like tools, plastic goods (softener), Curing agent, coating and laminating, printing ink, screen print	-	Reach Candidate list
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Flame retardant in plastic and textile	-	Reach Candidate list Reach Authorization list
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	Antioxidant to stabilize polymers		Reach Candidate list
Trixylyl phosphate	25155-23-1	Can occur in lubricants and transmission medium	-	Reach Candidate list

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

Name (substance, family or group)	CAS no. ²	Examples of known uses	When prohibited	Reason for inclusion	Legal scope

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

Annex C – Clarification of legal references and scope

Use of substances in **Epiroc Declarable list** shall be limited. Regardless if the scope of the legal reference is limited to a product type or a region Epiroc has decided that presence of any listed substance must be declared for all products delivered to Epiroc unless else is clearly exempted in **Epiroc Declarable list**. The duty to declare applies to any individual article assembled in any product.

Note that a substance can be included in many different legislations. The strictest requirement is then applied.

+ 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 section. This list is short and meant as a priority list for substitution.

+ REACH³ (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 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 listed 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 Authorization list (REACH Annex XIV)

Some of the substances in the Candidate list are also included in REACH Authorization list, meaning they cannot be used without a permit within EU. Epiroc do not differentiate between substances in the Authorization list or the Candidate list – but note that substances included in Authorization list cannot be used within EU without a permit from the EU Commission.

+ REACH Annex XVII

Contains a list of substances (on it own, in mixtures or in an article) for which the manufacturing, placing on the market or use is limited or banned in European Union. The list contain 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**.

+ 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.

+ RoHS⁴ (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 homogeneous material. For non-EEE the prohibition is valid for any individual article assembled in a product delivered to Epiroc.

³REACH – Registration, Evaluation, Authorization and restriction of Chemicals (EC 1907/2006)

⁴RoHS – Restriction of Hazardous Substances in electric and electronic equipment (2011/65/EU).

⁵The plasticizers di(2-ethylhexyl)phthalate (DEHP), buthylbenzylphthalate (BBP), dibuthylphthalate (DBP) and diisobuthylphthalate (DIBP) (0,1 %) are banned in EEE put on the market after July 22, 2019.

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

