

# WHITE NEGATIVE LIST



Issue 1.0, Approved: 2022-07

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1003-07-2	Isothiazolin-3-one	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
100-42-5	Styrene	Solvent, manufacture of plastic and rubber products				Part of national regulations in some European countries	D
10043-35-3	Boric acid	Boric acid is widely used on account of its consistency-influencing, flame-retarding, antiseptic and preservative properties. It is a component of detergents and cleaners, adhesives, toys, industrial fluids, brake fluids, glass, ceramics, flame retardants	REACH Candidate List: 0.1%				D
10045-94-0	Mercuric nitrate	In lamps, electric switches, luminescent materials	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
10099-74-8	Lead dinitrate	Used in manufacture of explosives, weapons and ammunitions , intermediate in preproduction of pigments and a laboratory agent.	REACH Candidate List: 0.1%, REACH Annex XVII				D
10108-64-2	Cadmium chloride	Analytical chemistry, photography, dyeing and calico printing	REACH Candidate List: 0.1%				D
101-14-4	Dichloro-4,4'-methylenedianiline, 2,2'-	Mainly used as curing agent in resins and in the production of polymer articles and also for manufacture of other substances. The substance may further be used in construction and arts.	REACH Candidate List, REACH Annex XIV, Annex XVII: 0,003% (20ppm)				R
10124-36-4	Cadmium sulphate	Used in metal surface coatings, in photovoltaic component manufacture, lead-acid batteries as a lubricant and as a laboratory agent. Also used as an intermediate in the production of other cadmium compounds, particularly pigments.	REACH Candidate List: 0.1%				D

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10124-43-3	Cobalt(II) sulphate	Cobalt(II) sulphate is mainly used in the manufacture of other chemicals including pigments and possibly catalysts, driers. Further applications comprise surface treatments (such as electroplating), corrosion prevention, decolorization (in glass, pottery)	REACH Candidate List: 0.1%				D
10141-05-6	Cobalt(II) dinitrate	Cobalt(II) dinitrate is mainly used in the manufacture of other chemicals including catalysts. Further applications may include surface treatment and in batteries.	REACH Candidate List: 0.1%				D
101-55-3	Bromodiphenylether	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
101-61-1	Methylenedianiline, N,N,N',N'-tetramethyl-4,4'- (Michler's base)	Chemical intermediate in the manufacture of dyes and pigments and in the manufacture of its hydrochloric salt. May be used as an R&D reagent.	REACH Candidate List: 0.1%				D
101-68-8	Methylene diphenyl diisocyanate, 4,4'- (MDI)	PU foam.	REACH Annex XVII: 0.1%			WHITE decision. Prohibited in foam packaging systems, use allowed in embedding of electronics and in adhesives	R
101-77-9	Diaminodiphenylmethane, 4,4'-	Diaminodiphenylmethane (MDA) is used as a reagent in the manufacture of rubber, plastics, diisocyanates, dyes and adhesives. In this use it is normally substantially consumed by conversion to other chemicals. Historically, there is some evidence of trace r	REACH Candidate List, REACH Annex XIV, Annex XVII: 0,003% (30ppm)				R
101-80-4	Oxydianiline, 4,4'-	Production of polymers such as polyimides for uses in wiring, printed circuits, and other high temperature applications. Residues may remain in articles of this nature.	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
102738-79-4	Propane, 2-Chloro-1,3-difluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
10294-40-3	Barium Chromate	Chromium pigments, chromated surfaces, corrosion inhibitors.	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
10325-94-7	Cadmium nitrate	Used for the manufacture of glass, porcelain and ceramic products and in laboratory chemicals	REACH Candidate List 0.1%				D
104-40-5	Nonylphenol, 4-	Surface active agents	REACH Annex XVII: 0.1%				R
10588-01-9	Sodium dichromate	This substance is an important reagent for the production of a wide range of chemicals. It is also used in metal finishing process, leather tanning and in some ceramics / glasses. This substance is very unlikely to be present in articles above 0.1% except	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
10606-46-9	Dicofol	Pesticide	(EU) 2019/1021		Stockholm Convention		R
106-46-7	Dichlorobenzene (1,4-)	Air freshener, deodoriser	REACH Annex XVII: 1%				R
106-47-8	Chloroaniline, 4-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
1067-33-0	dibutyltin diacetate	In plasticizers and metals, antifouling agents (TBT)	REACH Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
106-94-5	Bromopropane, 1- (n-propyl bromide)	This substance has been registered for REACH. According to the dissemination portal, it is used as an industrial solvent, surface cleaner and degreasing agent. Used in electronics industry for cleaning circuit boards.	REACH Candidate List: 0.1%, REACH Annex XIV				R
107-06-2	Ethane, 1,2-dichloro-	Mainly used for manufacture of other substances. Minor uses as solvent in the chemical and pharmaceutical industry.	REACH Candidate List, REACH Annex XIV				R
107-15-3	Ethylenediamine (EDA)	Intermediate in chemical synthesis e.g. of polymers	REACH Candidate List 0.1%				D
1072-35-1	Lead stearate	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
108-46-3	Resorcinol	Manufacture of chemicals, rubber and plastic products					D
108171-26-2	Alkanes, C10-12, chloro (Short Chain Chlorinated Paraffins)	SCCPs have had a variety of uses, including extreme pressure additives in metalworking fluids, flame retardants and plasticiser for rubbers and textiles, in leather processing and as a plasticiser in paints and sealing compounds. The major recent use has	REACH Candidate List: 0.1% (EU) 2019/1021, EU 2030/2015, 1% in mixtures, 0.15% in articles (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015; 1%		D
108-88-3	Toluene	Solvent	REACH Annex XVII: 0.1%			Only prohibited for use described in REACH Annex XVII	R
108-90-7	Chlorobenzene	Solvent, degreasing agent	REACH Annex XVII				R
109-86-4	Ethanol, 2-Methoxy-	2-methoxyethanol is mainly used as a chemical intermediate. Further minor uses are as a solvent or a laboratory chemical.	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
110-00-9	Furan	Furan is used primarily as an intermediate in the synthesis and production of tetrahydrofuran, pyrrole, and thiophene. Furan is also used in the formation of lacquers, as a solvent for resins, and in the production of agricultural chemicals, stabilizers,	REACH Candidate List: 0.1%				D
110-49-6	Methoxyethyl acetate, 2-	Potential use as solvent. Not yet registered under REACH.	REACH Candidate List: 0.1%				D
110-71-4	Ethane, 1,2-dimethoxy-; ethylene glycol dimethyl ether (EGDME)	Used as an industrial and process solvent. Also used as a constituent within flexo gravure water-solvent based inks, lithographic plate developers and glass cleaning solvents. May be found in the electrolyte system of lithium batteries (including consumer	REACH Candidate List: 0.1%				D
110-80-5	Ethanol, 2-Ethoxy-	2-ethoxyethanol is mainly used as a chemical intermediate. Further minor uses are as a solvent or a laboratory chemical.	REACH Candidate List: 0.1%				D
110-82-7	Cyclohexane	Solvent in adhesives etc.	REACH Annex XVII: 0.1%				R
110-91-8	Morpholine	Biocide in lubricants				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
11096-82-5	Chlorodiphenyl (Arochlor 1260)	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015 0.005%		R
11097-69-1	Arochlor 1254	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015 0.005%		R
11103-86-9	Potassium hydroxyoctaoxidizincatedichromate	Mainly used in coatings in the aeronautic/ aerospace, steel and aluminum coil coating and vehicle coating sectors.	REACH Candidate List, REACH Annex XIV				R

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11113-50-1	Boric acid, crude natural	Boric acid is widely used on account of its consistency-influencing, flame-retarding, antiseptic and preservative properties. It is a component of detergents and cleaners, adhesives, toys, industrial fluids, brake fluids, glass, ceramics, flame retardants	REACH Candidate List: 0.1%				D
111-15-9	Ethoxyethyl acetate, 2-	This substance is used as a solvent in some industrial adhesives and coatings, including wood stains, paints and varnishes. As a substance its use is prohibited in cosmetic products and must not be supplied to the general public.	REACH Candidate List: 0.1%				D
11120-22-2	Silicic acid, lead salt	Stabiliser used in production of pvc products	REACH Candidate List: 0.1%, REACH Annex XVII				D
111-42-2	diethanolamine	Corrosion protection, pH stabilizer				TRGS 611; 615, 0.2% WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids.	R
111512-56-2	Propane, 1,1-dichloro-1,2,3,3,3-pentafluoro- (HCFC-225eb)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
111-77-3	Ethanol 2-(2-methoxyethoxy) (DEGME)	Solvent in paints and degreasing agents	REACH Annex XVII: 0.1%				R
1118-46-3	butyltin trichloride (MBTC)	In plasticizers and metals, antifouling agents (TBT)	REACH Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
111-96-6	Bis(2-methoxyethyl) ether	Used primarily as a reaction solvent or process chemical in a wide variety of applications. Used also as solvent for battery electrolytes, and possibly in other products such as sealants, adhesives, fuels and automotive care products.	REACH Candidate List, REACH Annex XIV				R
1120-71-4	Propanesultone, (1,3-)	Electrolyte fluid of lithium ion batteries	REACH Candidate List: 0.1%				D

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112-34-5	Ethanol 2-(2-butoxyethoxy) (DEGBE)	Solvent in paints and degreasing agents	REACH Annex XVII: 3%				R
112-49-2	Ethane, (1,2-bis(2-methoxyethoxy))- (TEGDME; triglyme)	Used as an industrial and process solvent. May also be used as a constituent within flexo gravure water-solvent based inks, lithographic plate developers and glass cleaning solvents. May be found in the electrolyte system of lithium batteries (including c	REACH Candidate List: 0.1%				D
115-29-7	Endosulfan	Insecticide			Stockholm Convention		R
115-32-2	Dicofol	Pesticide			Stockholm Convention		R
115-96-8	Tris(2-chloroethyl)phosphate	Tris(2-chloroethyl)phosphate is mainly used as an additive plasticiser and viscosity regulator with flame-retarding properties for acrylic resins, polyurethane, polyvinyl chloride and other polymers. Other fields of application are adhesives, coatings, fl	REACH Candidate List, REACH Annex XIV				R
1163-19-5	Decabromodiphenylether, (2,2',3,3',4,4',5,5',6,6'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Candidate List: 0.1% REACH Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%	TSCA section 6(h), 15 U.S.C 2605(h) 40 CFR 751, 86 FR 880, January 2021.	R
117-81-7	Bis (2-ethylhexyl)phthalate (DEHP)	DEHP is widely used as a plasticizer for PVC (usually >> 1%). Plasticised PVC has a wide but diminishing use ranging from party clothing to gaskets, seals and medical devices. It should not be confused with UPVC, the plasticiser free version, which is use	REACH Candidate List, REACH Annex XIV, REACH Annex XVII	RoHS: 0.1% (2019)			R
117-82-8	Bis(2-methoxyethyl) phthalate	No registration for this phthalate compound has been submitted to ECHA. Hence, the substance seems not to be manufactured in or imported to the EU in quantities above 1 t/y. Main uses in the past were as plasticizer in polymeric materials and paints, lacq	REACH Candidate List: 0.1%, REACH Annex XIV, REACH Annex XVII				R
117964-21-3	Octabromodiphenylether, (2,2',3,3',4,4',6,6'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	2003/11/EC; RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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118-74-1	Hexachlorobenzene (HCB)	Pesticide			Stockholm Convention		R
119313-12-1	Morpholinobutyrophenone (2-benzyl-2-dimethylamino-4'-)	Photoinitiator added to UV curable inks, toners, adhesives, resins, paints and other coatings.	REACH Candidate List: 0.1%				D
119-90-4	Dimethoxybenzidine, 3,3'-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
119-93-7	Dimethylbenzidine, 3,3'-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
12001-28-4	Crocidolite	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
12001-29-5	Chrysotile	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
12002-48-1	Trichlorobenzene	Solvent, degreasing agent	REACH Annex XVII: 0.1%				R
12008-41-2	Disodium octaborate	Borates are used in wooden veneer sheets and pressed wooden panels, as a constituent within the starch adhesive, as a flame retardant and also as stabilizer in aminoplastic resins. Borates are used as a biocide in professional and industrial wood preservation.	REACH Candidate List 0.1%				D
120-12-7	Anthracene	Anthracene is normally a complex low concentration impurity or trace constituent in petroleum products. It has been found in some wood preservatives and fuels. This substance is very unlikely to feature in any supplied articles over 0.1%. Present in signi	REACH Candidate List: 0.1%				D
12036-76-9	Lead oxide sulfate	Used in lead batteries, pigments and paints, stabiliser for PVC	REACH Candidate List: 0.1%, REACH Annex XVII				D



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12060-00-3	Lead titanium trioxide	Used in piezoelectric ceramics, pigments and paints	REACH Candidate List: 0.1%, REACH Annex XVII				D
12065-90-6	Pentalead tetraoxide sulphate	Used in manufacture of explosives, weapons and ammunitions , intermediate in preproduction of pigments and a laboratory agent.	REACH Candidate List: 0.1%, REACH Annex XVII				D
12069-00-0	Lead selenide	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
120-71-8	Methoxy-m-toluidine, 6-	Used in dyeing of textiles and leather goods.	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
120-82-1	Trichlorobenzene	Solvent, degreasing agent	REACH Annex XVII: 0.1%				R
121-14-2	Toluene, 2,4-Dinitro-	2,4-dinitrotoluene is used in the production of toluene diisocyanate, which is used for the manufacture of flexible polyurethane foams. The substance is also used as gelatinizing-plasticizing agent for the manufacture of explosives.	REACH Candidate List, REACH Annex XIV				R
12122-67-7	Zineb	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2015				R
12141-20-7	Trilead dioxide phosphonate	Stabiliser used in production of pvc products.	REACH Candidate List: 0.1%, REACH Annex XVII				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
12172-73-5	Amosite	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
12179-04-3	Disodium tetraborate, anhydrous	Disodium tetraborate and tetraboron disodium heptaoxide form the same compounds in aqueous solutions. Uses include a multitude of applications, e.g. in detergents and cleaners, in glass and glass fibers, ceramics, industrial fluids, metallurgy, adhesives,	REACH Candidate List: 0.1%				D
12202-17-4	Tetralead trioxide sulphate	Stabiliser used in production of pvc products.	REACH Candidate List: 0.1%, REACH Annex XVII				D
12267-73-1	Tetraboron disodium heptaoxide, hydrate	Disodium tetraborate and tetraboron disodium heptaoxide form the same compounds in aqueous solutions. Uses include a multitude of applications, e.g. in detergents and cleaners, in glass and glass fibers, ceramics, industrial fluids, metallurgy, adhesives,	REACH Candidate List: 0.1%, REACH Annex XVII				D
123-77-3	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	This substance is used as a catalyst, in the production of electrical equipment and as an industrial blowing agent in the production of rubber and plastic products. It may also be used in adhesives, paints and coatings and consumer-use air fresheners.	REACH Candidate List: 0.1%				D
12427-38-2	Maneb	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2012				R
124-72-1	Bromotetrafluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
124-73-2	Dibromotetrafluoroethane (Halon-2402), 1,2-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
12578-12-0	Dioxobis(stearato)trilead	Stabiliser used in production of pvc products	REACH Candidate List: 0.1%, REACH Annex XVII				D
126-11-4	Trihydroxymethylnitromethane	Biocide in lubricants				WHITE decision; 0.005% free formaldehyde	R
12626-81-2	Lead titanium zirconium oxide	This substance is used in the production of lead titanate zirconate, in electro-ceramic components and piezoceramics. It may be present in such articles above 0.1% w/w.	REACH Candidate List: 0.1%, REACH Annex XVII				D
12656-85-8	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) is used as a colouring, painting and coating agent in sectors such as the rubber, plastic and paints, coatings and varnishes industries. Applications comprise the production of agricultural equip	REACH Candidate List, REACH Annex XIV, Annex XVII: Prohibited in paint				R
12672-29-6	Arochlor 1248	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015 0.005%		R
127-18-4	Tetrachloroethylene ("PER")	Solvent, degreasing agent				WHITE decision. General ban since 1985.	R
127-19-5	N,N-dimethylacetamide	Used as solvent, mainly in the manufacture of various substances and in the production of fibres for clothing and other applications. Also used as reagent, and in products such as industrial coatings, polyimide films, paint strippers and ink removers.	REACH Candidate List: 0.1%, REACH Annex XVII				D
127564-83-4	Dichlorotetrafluoropropane (HCFC-234)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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127564-92-5	Dichloropentafluoropropane (HCFC-225)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
12767-79-2	Arochlor	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015 0.005%		R
12789-03-6	Chlordane	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2009		Stockholm Convention		R
128903-21-9	Propane, 2,2-dichloro-1,1,1,3,3-pentafluoro- (HCFC-225a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
129-00-0	Pyrene	Unlikely. Pyrene is a Polycyclic Aromatic Hydrocarbon (PAH) which may be present as impurities in extender oils which may be used as plasticizers in rubber and plastics and in potting materials. Pyrene may also be present as impurities in black colourants (e.g. Carbon Black) which may be used in rubber and plastics.	REACH Candidate List 0.1%				D
1303-28-2	Diarsenic pentaoxide	Diarsenic pentoxide is used in the manufacture of arsenates, old or non-EU weed killer, metal adhesives and specialist insecticides, fungicides, and wood preservatives. Note that use of arsenic compounds is severely restricted already. It has been used	REACH Candidate List, REACH Annex XIV, REACH Annex XVII				R
1303-86-2	Diboron trioxide	Wide range of registered uses including soldering and welding agents, protective chemicals, in wood stone, plaster, cement, ceramic and glass articles; inks, varnishes, paints, coatings, fertilizers, vehicle and machinery parts, batteries, leather and tex	REACH Candidate List: 0.1%				D

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1303-96-4	Disodium tetraborate, anhydrous	Disodium tetraborate and tetraboron disodium heptaoxide form the same compounds in aqueous solutions. Uses include a multitude of applications, e.g. in detergents and cleaners, in glass and glass fibers, ceramics, industrial fluids, metallurgy, adhesives,	REACH Candidate List: 0.1%				D
1306-19-0	Cadmium oxide	Nickel- cadmium batteries, Pigments for plastics, Low melting alloys, Electroplating, Solder, Semiconductors, Stabilizers in PVC	REACH Candidate List: 0.1%				D
1306-23-6	Cadmium sulphide	Pigment for ceramics and glass and in photo electronic applications such as solar cells.	REACH Candidate List: 0.1%				D
1309-60-0	Lead(IV)oxide	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
131-18-0	Dipentyl phthalate (DPP)	Plasticiser	REACH Candidate List: 0.1%, REACH Annex XIV, REACH Annex XVII				R
1314-41-6	Orange lead (lead tetroxide)	Used in anti-corrosion coatings (red lead primer), also used in optical glass, ceramic glazes and enamel, to make piezofiles, and as a weak oxidizer in the chemical industry	REACH Candidate List: 0.1%, REACH Annex XVII				D
1314-87-0	Lead(II)sulfide	In pigments, additives, corrosion inhibitors	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
13149-00-3	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans	Used as hardeners for epoxy resins, intermediates for alkyds, plasticizers, insect repellents and rust inhibitors	REACH Candidate List: 0.1%				D
131-52-2	Pentachlorophenol, Sodium salt	Pesticide			Stockholm Convention		R
1317-36-8	Lead monoxide (lead oxide)	Glass and crystal making, ceramics, lead-acid batteries, pigments and paints, vulcanisation of rubber, manufacture of cathode ray tubes, organic synthesis	REACH Candidate List: 0.1%, REACH Annex XVII				D
1319-46-6	Trilead bis(carbonate)dihydroxide	Pigment in paints and ceramic glazes. Catalyst in the preparation of polyesters from terephthalic acid and diols, curing agent for peroxides to form improved polyethylene wire insulation, pearlescent pigment, color-changing component of temperature-sensit	REACH Candidate List: 0.1% REACH Annex XVII				D
1321-64-8	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.005% Stockholm Convention		R
1321-65-9	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.005% Stockholm Convention		R
132207-32-0	Chrysotile	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
1327-53-3	Diarsenic trioxide	This substance is used in lead alloys (especially in lead-acid batteries), glass (and, to a lesser extent, enamel) production and as a source of high-purity arsenic for use in the electronics industry.	REACH Candidate List, REACH Annex XIV; REACH Annex XVII				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1330-43-4	Disodium tetraborate, anhydrous	Disodium tetraborate and tetraboron disodium heptaoxide form the same compounds in aqueous solutions. Uses include a multitude of applications, e.g. in detergents and cleaners, in glass and glass fibers, ceramics, industrial fluids, metallurgy, adhesives,	REACH Candidate List: 0.1%				D
1330-45-6	Chlorotrifluoroethane (HCFC-133)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
1330-78-5	Tricresylphosphate (all isomers including ortho)	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				WHITE decision (only in metal working/cutting fluids). Ortho-TCP: 0.5%. The sum of Meta- and Para-TCP: 5%.	R
1332-21-4	Asbestos	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015 MEPC.269(68), 2015: 0.1%		R
1333-82-0	Chromium trioxide	Chromium trioxide is mainly used in metal finishing, such as electroplating (e.g. hard chrome and decorative plating), conversion coatings and brightening. It is also used as a fixing agent in waterborne wood preservatives. Minor uses are e.g. in the manu	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
1335-88-2	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.005% Stockholm Convention		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1336-36-3	Polychlorinated biphenyls (PCB)	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015 0.005%		R
134190-48-0	Pentachlorofluoropropane (HCFC-231)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134190-49-1	Tetrachlorofluoropropane (HCFC-241)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134190-50-4	Chlorotetrafluoropropane (HCFC-244)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134190-51-5	Trichlorofluoropropane (HCFC-251)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134190-52-6	Dichlorodifluoropropane (HCFC-252)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134190-53-7	Chlorodifluoropropane (HCFC-262)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134190-54-8	Chlorofluoropropane (HCFC-271)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-31-3	Pentachlorotrifluoropropane (CFC-213)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-32-4	Tetrachlorofluoroethane (HCFC-121)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-34-6	Trichlorofluoroethane (HCFC-131)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-35-7	Hexachlorofluoropropane (HCFC-221)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-36-8	Pentachlorodifluoropropane (HCFC-222)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-37-9	Tetrachlorotrifluoropropane (HCFC-223)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134237-38-0	Trichlorotetrafluoropropane (HCFC-224)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-39-1	Tetrachlorodifluoropropane (HCFC-232)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-40-4	Trichlorotrifluoropropane (HCFC-233)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-41-5	Chloropentafluoropropane (HCFC-235)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-42-6	Trichlorodifluoropropane (HCFC-242)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-43-7	Dichlorotrifluoropropane (HCFC-243)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-44-8	Chlorotrifluoropropane (HCFC-253)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134237-45-9	Dichlorofluoropropane (HCFC-261)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
134237-50-6	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	This substance is a flame retardant for plastics and fibres. It is used to produce flame retarded polystyrene and to flame proof some clothing and furniture textiles. A narrow use profile but there is a significant possibility that flame resistant polysty	REACH Candidate List, REACH Annex XIV; (EU) No. 1257/2013				R
134237-51-7	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	This substance is a flame retardant for plastics and fibres. It is used to produce flame retarded polystyrene and to flame proof some clothing and furniture textiles. A narrow use profile but there is a significant possibility that flame resistant polysty	REACH Candidate List, REACH Annex XIV				R
134237-52-8	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	This substance is a flame retardant for plastics and fibres. It is used to produce flame retarded polystyrene and to flame proof some clothing and furniture textiles. A narrow use profile but there is a significant possibility that flame resistant polysty	REACH Candidate List, REACH Annex XIV				R
13424-46-9	Lead diazide, Lead azide	Mainly used as initiator or booster in detonators for both civilian and military uses and as initiator in pyrotechnic devices.	REACH Candidate List: 0.1%, REACH Annex XVII				D
134308-72-8	Chlorohexafluoropropane (HCFC-226)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
1344-36-1	Lead hydroxidcarbonate	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1344-37-2	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	Lead sulfochromate yellow (C.I. Pigment Yellow 34) is used as a colouring, painting and coating agent in sectors such as the rubber, plastic and paints, coatings and varnishes industries. Applications comprise the production of agricultural equipment, veh	REACH Candidate List, REACH Annex XIV; Annex XVII: Prohibited in paint				R
1344-48-5	Mercuric sulfide	In lamps, electric switches, luminescent materials	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
13474-88-9	Propane, 1,1-dichloro-1,2,2,3,3-pentafluoro- (HCFC-225cc)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
13530-65-9	Zinc Chromate	Chromium pigments, chromated surfaces, corrosion inhibitors.	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
13530-68-2	Dichromic acid	Chromium pigments, chromated surfaces, corrosion inhibitors.	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
135401-87-5	Heptachlorofluoropropane (CFC-211)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
136013-79-1	Propane, 1,3-dichloro-1,1,2,3,3-pentafluoro- (HCFC-225ea)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
13654-09-6	Decabromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
136677-10-6	Polychlorinated dibenzofuran	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
137-17-7	Trimethylaniline, 2,4,5-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
137-26-8	Thiram	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2014				R
137-42-8	Metam Sodium	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2013				R
13765-19-0	Calcium chromate	Chromium pigments, chromated surfaces, corrosion inhibitors.	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
13768-00-8	Actinolite	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
13814-96-5	Lead bis(tetrafluoroborate)	Used as a catalyst in production of linear polyesters, a curing agent for epoxy resins; in electroplating solutions for coating metals with lead, in manufacturing flame-retardants, for electrolytic generation of boron, and in preparations for glazing frit	REACH Candidate List: 0.1%, REACH Annex XVII				D
138495-42-8	Decafluoropentane (HFC-43-10mee)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
139-65-1	Thiodianiline, 4,4'-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
140-66-9	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	Mainly used in the manufacture of polymer preparations and of ethoxylates. Further used as a component in adhesives, coatings, inks and rubber articles.	REACH Candidate List: 0.1%				D
14166-21-3	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans	Used as hardeners for epoxy resins, intermediates for alkyds, plasticizers, insect repellents and rust inhibitors	REACH Candidate List: 0.1%				D
14275-57-1	Bis(tributyltin) maleate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
143-50-0	Chlordecone	Pesticide			Stockholm Convention		R
143860-04-2	Oxazolidine, (3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-	The chemical's proposed use is in high-solids polyurethane coatings as a reactive	REACH Candidate List: 0.1%				D
14567-73-8	Tremolite	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1461-22-9	Tributyltin chloride	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
1461-25-2	Tetrabutyltin	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
147217-75-2	Tribromodiphenylether, (2,2',4-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
14797-65-0	Nitrite	Risk of carcinogenic nitrosamine formation when used as an inhibitor in cutting fluids				WHITE decision. Applies only to use in cutting fluids (20 ppm)	R
15087-24-8	Heptan-2-one, 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]-	This substances is not normally found in concentrations > 0.1% w/w in articles and materials used in mechanical products or electrical products. 3-Benzylidene Camphor is an organic compound that absorbs ultraviolet (UV) light. In Europe, 3-Benzylidene Camphor is an approved UV filter , which means that this ingredient can be added to sunscreen products that are designed to protect the skin from the sun.	REACH Candidate List 0.1%				D
1511-62-2	Bromodifluoromethane (HBFC-12B1)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
15245-44-0	Lead styphnate	Mainly used as a primer for small calibre and rifle ammunition. Other common uses are in munition pyrotechnics, powder actuated devices and detonators for civilian use.	REACH Candidate List: 0.1%, REACH Annex XVII				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
15546-11-9	dibutyltin bis(methylmaleate)	In plasticizers and metals, antifouling agents (TBT)	REACH Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
15571-58-1	Stannatetradecanoate, (2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-) (DOTE)	Present in a reaction mass with the corresponding mono-octyltin compound, MOTE : used as a heat stabilizer in the production of rigid PVC and some other plastics; found in some adhesives and pigment dispersions. Reference material for laboratory use.	REACH Candidate List: 0.1%				D
15606-95-8	Triethyl arsenate	This substance is used in the manufacture of semiconductors and has been used in the production of wood preservatives. In both cases the final quantity of the compound in a finished article is expected to be less than 0.1%.	REACH Candidate List: 0.1%, Annex XVII				D
15739-80-7	Lead sulfate	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
15972-60-8	Alachlor	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2019				R
1599-41-3	Trichloropentafluoropropane (CFC-215)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
1649-08-7	Dichlorodifluoroethane (HCFC-132b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
1691-99-2	n-Ethyl Perfluorooctane Sulfonamidoethanol		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1717-00-6	Dichlorofluoroethane (HCFC-141b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
1746-01-6	Tetrachlorodibenzo-p-dioxin, (2,3,7,8-)	Inceneration and combustion pollutant			Stockholm Convention		R
17570-76-2	Lead(II) bis(methanesulfonate)	Main application is tin-lead electroplating on printed circuit boards. This application is in decline owing to the restrictions on lead in electrical products as regulated in the EU by RoHS (2011/65/EU).	REACH Candidate List: 0.1%, REACH Annex XVII				D
1763-23-1	PFOS (Perfluorooctane sulfonic acid, its salts and perfluorooctane sulfonyl fluoride (PFOS-F))	In fire extinguishing equipment, surface treatment	(EU) No. 1257/2013 (EU) 2019/1021		Stockholm Convention		R
1803-12-9	Triphenyltin N,N'-dimethyldithiocarbamate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
182346-21-0	Pentabromodiphenylether, (2,2',3,4,4'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
1836-75-5	Nitrofen	Herbicide	EU Reg. 540/2011 EC Reg. 1107/2009				R
1842-05-3	Dichlorodifluoroethane (HCFC-132c)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1868-53-7	Dibromofluoromethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
189084-61-5	Tetrabromodiphenylether, (2,3`4,4`-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
189084-64-8	Pentabromodiphenylether, (2,2`,4,4`,6-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
189-55-9	Dibenzo(a,i)pyrene (DB(a,i)P)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R
189-64-0	Dibenzo(a,h)pyrene (DB(a,h)P)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R
1912-24-9	Atrazine	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2017				R
191-24-2	Benzo(ghi)perylene	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Candidate List: 0.1%				R
191-30-0	Dibenzo(a,l)pyrene (DB(a,l)P)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
192-65-4	Dibenzo(a,e)pyrene (DB(a,e)P)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R
192-97-2	Benzo(e)pyrene (BeP)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
193-39-5	Indeno(1,2,3-cd)pyrene	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R
1937-37-7	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	Direct Black 38 is a benzidine-based dye	REACH Candidate List: 0.1%				D
19438-60-9	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isom	Curing agent for epoxy resins, especially in the electric and electronics field	REACH Candidate List: 0.1%				D
194-59-2	Dibenzo(c,g)carbazole, 7H- (7H-DB(c,g)C)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R
1983-10-4	Tributyltin fluoride	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
2050-47-7	Dibromodiphenylether	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
2052-07-5	Biphenyl, 2-bromo-	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
205-82-3	Benzo(j)fluoranthene (BjFA)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
2058-94-8	Henicosafleuroundecanoic acid	Processing aids in the production of fluoropolymers and fluoroelastomers and in other surfactant uses / impurity	REACH Candidate List: 0.1%				D
205-99-2	Benzo(b)fluoranthene (BbFA)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
206-44-0	Fluoranthene	Unlikely. Fluoranthene is a Polycyclic Aromatic Hydrocarbon (PAH) which may be present as impurities in extender oils which may be used as plasticizers in rubber and plastics and in potting materials. Fluoranthene may also be present as impurities in black colourants (e.g. Carbon Black) which may be used in rubber and plastics.	REACH Candidate List 0.1%				D
207-08-9	Benzo(k)fluoranthene (BkFA)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
207-08-9	Benzo[k]fluoranthene	Unlikely. Benzo[k]fluoranthene is a Polycyclic Aromatic Hydrocarbon (PAH) which may be present as impurities in extender oils which may be used as plasticizers in rubber and plastics and in potting materials. Benzo[k]fluoranthene may also be present as impurities in black colourants (e.g. Carbon Black) which may be used in rubber and plastics.	REACH Candidate List 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
207122-15-4	Hexabromodiphenylether, (2,2',4,4',5,6'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
207122-16-5	Heptabromodiphenylether, (2,2',3,4,4',5',6-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
20837-86-9	Lead cyanamidate	Pigment, lubricant additive	REACH Candidate List: 0.1%, REACH Annex XVII				D
21041-95-2	Cadmium hydroxide	Used for the manufacture of electrical, electronic and optical equipment and in laboratory chemicals.	REACH Candidate List 0.1%				D
21049-39-8	Perfluorononan-1-oic-acid and its sodium and ammonium salts	Processing aid for fluoropolymer manufacture/lubricating oil additive/surfactant for fire extinguishers/cleaning agent/textile antifouling finishing agent/polishing surfactant/waterproofing agents and in liquid crystal display panels	REACH Candidate List: 0.1%				D
2113-57-7	Bromobiphenyl, (3-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
21436-97-5	Trimethylaniline, 2,4,5-, hydrochloride	Intermediate in synthesis of dyes	REACH Annex XVII				R
2155-70-6	Tributyltin methacrylate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
218-01-9	Chrysen (CHR)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
218-01-9	Chrysene	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.	REACH Candidate List 0.1%, REACH Annex XVII				D
21908-53-2	Mercuric(II)oxide	In lamps, electric switches, luminescent materials	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
2224-44-4	Morpholine, 4-(2-nitrobutyl)-	Biocide in lubricants				WHITE decision; 0.005% free formaldehyde	R
2234-13-1	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.005% Stockholm Convention		R
224-42-0	Dibenz(a,j)acridine (DB(a,j)AC)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R
2252-78-0	Bromohexafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
226-36-8	Dibenz(a,h)acridine (DB(a,h)AC)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
2268-46-4	Tetrachlorotetrafluoropropane, 1,1,1,3-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
2279-76-7	Tripropyltin chloride	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
2354-06-5	Pentachlorotrifluoropropane (CFC-213)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
2385-85-5	Mirex	Pesticide, flame retardant			Stockholm Convention		R
24124-25-2	Stannane, tributyl(1-oxo-9,12-octadecadienoyl)	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
2437-79-8	PCB47	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention 0.005%		R
24448-09-7	n-Methyl Perfluorooctane Sulfonamidoethanol		(EU) 2019/1021				R
2451-62-9	Triazinane-2,4,6-trione, (1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-)-, (TGIC)	Epoxy compound. Used as hardener in resins and coatings. May be used in solder mask applications in production of printed circuit boards. Also used in weather resistant polyester-based powder coatings. May be found in electrical insulation materials, adhe	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
24613-89-6	Dichromium tris(chromate)	Mainly used in mixtures for metal surface treatment in the aeronautic/aerospace, steel and aluminum coating sectors.	REACH Candidate List, REACH Annex XIV				R
2475-45-8	Tetraaminoanthraquinone,1,4,5,8-	Colorant, textile dispersive dye	REACH Annex XVII				R
251099-16-8	Didecyldimethylammonium perfluorooctane sulfonate		(EU) 2019/1021				R
25154-52-3	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a c	Surface active agents	REACH Annex XVII: 0.1%				R
25155-23-1	Trixylyl phosphate	Flame retardant	REACH Candidate List: 0.1%, REACH Annex XIV				D
25167-88-8	Dichlorofluoroethane (HCFC-141)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
25214-70-4	Formaldehyde, oligomeric reaction products with aniline	Mainly used for manufacture of other substances. Minor uses are as hardener for epoxy resins, e.g. for the production of rolls, pipes and molds, and as well for adhesives.	REACH Candidate List, REACH Annex XIV				R
2536-05-2	Methylenediphenyl diisocyanate (MDI), 2,2'-	PU foam.	REACH Annex XVII: 0.1%			WHITE decision. Prohibited in foam packaging systems, use allowed in embedding of electronics and in adhesives	R
25497-29-4	Chlorodifluoroethane (HCFC-142)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention	EPA Ozone Layer protection	R
2551-62-4	SF6 (Sulfurhexafluoride)		EU 517/2014		Kyoto Protocol		R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
25550-51-0	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isom	Curing agent for epoxy resins, especially in the electric and electronics field	REACH Candidate List: 0.1%				D
25637-99-4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	This substance is a flame retardant for plastics and fibres. It is used to produce flame retarded polystyrene and to flame proof some clothing and furniture textiles. A narrow use profile but there is a significant possibility that flame resistant polysty	REACH Candidate List, REACH Annex XIV		Stockholm Convention		R
2580-56-5	Dimethylammonium chloride, [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]- (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EU No. 202-027-5) or Michler's base (EU No. 202-959-2)]	Colorant with uses that may include dyes and inks, including in ball point pens and printer cartridges, cosmetics such as soaps, dyeing of paper, card, plastic, wood, lacquers and coatings, analytical / R&D/diagnostic uses.	REACH Candidate List: 0.1%				D
25915-78-0	Dichlorodifluoroethane (HCFC-132)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
25973-55-1	Phenol, (2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentyl-) (UV-328)	Used as an additive; a UV absorber used particularly in transparent plastics. Also used for light-stabilizing rubbers and plastics, and in coatings for wood and the automotive sector. Some use in cosmetics	REACH Candidate List: 0.1%, REACH Annex XIV				D
26172-54-3	Isothiazolin-3-one, 2-Methyl-4-, hydrochloride	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
26172-55-4	Isothiazolinone	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
2634-33-5	Benzisothiazol-3-one, 1,2-	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
26354-18-7	Stannane, tributylmethacrylate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
26401-86-5	octyltin tris(isooctyl mercaptoacetate)	In plasticizers and metals, antifouling agents (TBT)	REACH Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
26447-40-5	Methylenediphenyl diisocyanate (MDI) including isomers	PU foam.	REACH Annex XVII: 0.1%			WHITE decision. Prohibited in foam packaging systems, use allowed in embedding of electronics and in adhesives	R
26530-03-0	Isothiazol-3-one, 5-Chlor-2-methyl-2H-	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
26530-20-1	Isothiazol-3-one, 2-N-octyl-2,3-dihydroxy-	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
26636-01-1	dimethyltin bis(isooctyl mercaptoacetate)	In plasticizers and metals, antifouling agents (TBT)	REACH Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
26636-32-8	Tributyltinnaphthalate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
2682-20-4	Isothiazolin-3-one, 2-Methyl-4-	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
2713-09-9	Dichloropentafluoropropane (HCFC-225)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
27154-33-2	Trichlorofluoroethane (HCFC-131)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
27323-18-8	Kanechlor 500	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015 0.005%		R
27858-07-7	Octabromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
2795-39-3	Perfluorooctane sulfonate		(EU) 2019/1021				R
2837-89-0	Monochlorotetrafluoroethane (HCFC-124)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
29081-56-9	Perfluorooctane Sulfonate Ammonium Salt		(EU) 2019/1021				R
29255-31-0	Tetrachlorotetrafluoropropane (CFC214)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
29457-72-5	Perfluorooctane Sulfonate Lithium Salt		(EU) 2019/1021				R
301-04-2	Lead di(acetate)	This substance may be found in paints and coatings, fillers and plasters, as an intermediate and as a laboratory reagent	REACH Candidate List: 0.1%, REACH Annex XVII				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
302-01-2	Hydrazine	Hydrazine is used as a foaming agent, as a precursor to polymerization catalysts and pharmaceuticals. Additionally, hydrazine is used in various rocket fuels and to prepare the gas precursors used in air bags. Hydrazine is also used as a corrosion inhibitor	REACH Candidate List: 0.1%				D
30283-91-1	Bromotrifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
306-83-2	Dichlorotrifluoroethane (HCFC-123)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
307-35-7	Perfluorooctane Sulfonyl Fluoride		(EU) 2019/1021				R
307-55-1	Tricosafuorododecanoic acid	Processing aids in the production of fluoropolymers and fluoroelastomers and in other surfactant uses / impurity. Laboratory chemical.	REACH Candidate List: 0.1%				D
309-00-2	Aldrin	Pesticide			Stockholm Convention		R
3090-35-5	Stannane, tributyl(oleoyloxy)	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
3090-36-6	Tributyltin laurate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
3108-42-7	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	Lubricant, wetting agent, plasticiser and corrosion inhibitor	REACH Candidate List 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
31119-53-6	Cadmium sulphate	Used in metal surface coatings, in photovoltaic component manufacture, lead-acid batteries as a lubricant and as a laboratory agent. Also used as an intermediate in the production of other cadmium compounds, particularly pigments.	REACH Candidate List: 0.1%				D
311-89-7	Perfluorotributylamine (PFTBA)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
31392-96-8	Dibromodifluoroethane (Halon 2202)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
31506-32-8	n-Methyl Perfluorooctane Sulfonamide		(EU) 2019/1021				R
3165-93-3	ortho-toluidinium-4-chloro chloride	Manufacturing of dyes for textiles	REACH Annex XVII				R
31732-71-5	Bis(tributyltin) 2,3-dibromosuccinate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
3182-26-1	Hexachlorodifluoropropane (CFC-212)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
3194-55-6	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	This substance is a flame retardant for plastics and fibres. It is used to produce flame retarded polystyrene and to flame proof some clothing and furniture textiles. A narrow use profile but there is a significant possibility that flame resistant polysty	REACH Candidate List, REACH Annex XIV		Stockholm Convention		R
319-84-6	Alpha hexachlorocyclohexane	Pesticide			Stockholm Convention		R
319-85-7	Beta hexachlorocyclohexane	Pesticide			Stockholm Convention		R
319-86-8	Delta-hexachlorocyclohexane		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
32534-81-9	Pentabromodiphenylethers	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	2003/11/EC; RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
32536-52-0	Octabromodiphenylethers	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	2003/11/EC; RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
32598-13-3	PCB77	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
32774-16-6	PCB169	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
330-55-2	Linuron	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2016				R
33213-65-9	Endosulfan	Insecticide			Stockholm Convention		R
335-67-1	Pentadecafluorooctanoic acid (PFOA)	Surface treatment. Cleaning agent	REACH Candidate List: 0.1%, (EU) 2019/1021 (EU) 2021/115		Stockholm Convention		R
335-76-2	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	Lubricant, wetting agent, plasticiser and corrosion inhibitor	REACH Candidate List 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
33631-63-9	Mercuric chloride	In lamps, electric switches, luminescent materials	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
337513-72-1	Octabromodiphenylether, (2,2',3,4,4',5,5',6-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	2003/11/EC; RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
338-75-0	Propane, 2,3-Dichloro-1,1,1-trifluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
34077-87-7	Dichlorotrifluoroethane (HCFC-123)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
34256-82-1	Acetochlor	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2018				R
35065-27-1	PCB153	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
352-91-0	Bromofluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
353-36-6	Fluoroethane (HFC-161)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
353-59-3	Bromochlorodifluoromethane (Halon-1211)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
353-97-9	Tribromodifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
354-04-1	Dibromotrifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
354-11-0	Tetrachlorofluoroethane (HCFC-121a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
354-14-3	Tetrachlorofluoroethane (HCFC-121)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
354-21-2	Trichlorodifluoroethane (HCFC-122)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
354-23-4	Dichlorotrifluoroethane (HCFC-123a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
354-25-6	Chlorotetrafluoroethane HCFC-124a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
354-33-6	Pentafluoroethane (HFC-125)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
354-56-3	Pentachlorofluoroethane (CFC-111)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
354-58-5	Trichlorotrifluoroethane (CFC-113)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
355-25-9	Decafluorobutane (PFC-3-1-10)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R
355-42-0	Tetradecafluorohexane (PFC-5-1-14)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R
3563-45-9	Tetrachloro DDT	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2010		Stockholm Convention		R
358-97-4	Dibromofluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
359-07-9	Bromodifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
359-28-4	Trichlorofluoroethane (HCFC-131)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
359-35-3	Fluoromethane (HFC-134)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
362631-77-4	Tribromodifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
36355-01-8	Hexabromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
36437-37-3	Phenol, (2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)-) (UV-350)	UV-protection agents in coatings, plastics, rubber and cosmetics	REACH Candidate List: 0.1%, REACH Annex XIV				D
36483-60-0	Hexabromodiphenylether	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
36631-23-9	Tributyltin naphthalate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
3687-31-8	Trilead diarsenate	Trilead diarsenate is present in complex raw materials imported for manufacture of copper, lead and a range of precious metals. The trilead diarsenate contained in the raw materials is in the metallurgical refinement process transformed to calcium arsenat	REACH Candidate List: 0.1%, REACH Annex XVII				D
3697-24-3	Methylchrysene 5- (5-MC)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.					R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
373-52-4	Bromofluoromethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
375-95-1	Perfluorononan-1-oic-acid and its sodium and ammonium salts	Processing aid for fluoropolymer manufacture/lubricating oil additive/surfactant for fire extinguishers/cleaning agent/textile antifouling finishing agent/polishing surfactant/waterproofing agents and in liquid crystal display panels	REACH Candidate List: 0.1%				D
376-06-7	Heptacosafuorotetradecanoic acid	Used as processing aids in the production of fluoropolymers and fluoroelastomers and in other surfactant uses / impurity	REACH Candidate List: 0.1%				D
379-52-2	Triphenyltin fluoride	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
3825-26-1	Ammonium pentadecafluorooctanoate (APFO)	Cleaning agents	REACH Candidate List: 0.1%				D
3830-45-3	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	Lubricant, wetting agent, plasticiser and corrosion inhibitor	REACH Candidate List 0.1%				D
3846-71-7	Phenol, (2-benzotriazol-2-yl-4,6-di-tert-butyl-) (UV-320)	Used as an additive; a UV absorber used particularly in transparent plastics. Also used for light-stabilizing rubbers and plastics, and in coatings for wood and the automotive sector. Some use in cosmetics	REACH Candidate List: 0.1%, REACH Annex XIV				D
3864-99-1	Phenol, (2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)-) (UV-327)	UV-protection agents in coatings, plastics, rubber and cosmetics	REACH Candidate List: 0.1%, REACH Annex XIV				D
39001-02-0	Octachlorodibenzofuran	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
39156-41-7	Diaminoanisole, 2,4-, sulphate	Intermediate in synthesis of dyes	REACH Annex XVII				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
40088-45-7	Tetrabromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
40088-47-9	Polybrominated diphenylethers	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
40321-76-4	Pentachlorodibenzodioxin	Inceneration and combustion pollutant			Stockholm Convention		R
406-58-6	Pentafluorobutane (HFC-365mfc)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
41318-75-6	Tribromodiphenylether, (2,4,4`-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
4149-60-4	Perfluorononan-1-oic-acid and its sodium and ammonium salts	Processing aid for fluoropolymer manufacture/lubricating oil additive/surdactant for fire extinguishers/cleaning agent/textile antifouling finishing agent/polishing surfactant/waterproofing agents and in liquid crystal display panels	REACH Candidate List: 0.1%				D
4151-50-2	n-Ethyl Perfluorooctane Sulfonamide		(EU) 2019/1021				R
115-25-3	Octafluorocyclobutane (PFC-c-318)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R
41834-16-6	Trichlorodifluoroethane (HCFC-122)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
420-44-0	Propane, 2-Chloro-2-fluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
420-46-2	Trifluoroethane (HFC-143a)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
420-88-2	Tribromofluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
420-89-3	Bromodifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
420-97-3	Dichlorofluoropropane (HCFC-261)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
421-02-03	Monochlorodifluoropropane (HCFC-262)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
421-41-0	Monochlorotetrafluoropropane (HCFC-251)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
421-90-9	Tribromotrifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
421-94-3	Pentachlorofluoropropane (HCFC-231)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
422-01-5	Bromopentafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-26-4	Hexachlorofluoropropane (HCFC-221)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-44-6	Propane, 1,2-dichloro-1,1,2,3,3-pentafluoro- (HCFC-225bb)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-48-0	Propane, 2,3-dichloro-1,1,1,2,3-pentafluoro- (HCFC-225ba)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-49-1	Pentachlorodifluoropropane (HCFC-222)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-52-6	Tetrachlorotrifluoropropane (HCFC-223)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-54-8	Trichlorotetrafluoropropane (HCFC-224)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
422-56-0	Dichloropentafluoropropane (HCFC-225ca)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-78-6	Heptachlorofluoropropane (CFC-211)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
422-86-6	Chloroheptafluoropropane (CFC-217)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
4259-43-2	Trichloropentafluoropropane (CFC-215)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
425-94-5	Dichlorotetrafluoropropane (HCFC-234)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
4299-07-4	Buty -n-l-1,2-benzisothiazolin-3-one	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
430-55-7	Monochlorofluoropropane (HCFC-271)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
430-57-9	Ethane, 1,2-dichloro-1-fluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
430-66-0	Triflouroethane (HFC-143)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
431-06-1	Dichlorodifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
431-21-0	Dibromotrifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
431-63-0	Hexafluoropropane (HFC-236ea)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
431-78-7	Dibromopentafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
431-86-7	Propane, 1,2-dichloro-1,1,3,3,3-pentafluoro- (HCFC-225da)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
431-87-8	Monochlorohexafluoropropane (HCFC-226)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
431-89-0	Heptafluoropropane (HFC-227ea)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
4342-30-7	Tributylstannyl salicylate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
4342-36-3	Tributylstannyl benzoate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
437701-78-5	Nonabromodiphenylether, (2,2',3,3',4,5,5',6,6'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
446255-22-7	Heptabromodiphenylether, (1,2,2',3,3',5,5'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
446255-39-6	Octabromo diphenylether, (2,2',3,3',4,4',5,6,6'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	2003/11/EC; RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
446255-50-1	Octabromodiphenylether, (2,2',3,3',4,5',6,6'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	2003/11/EC; RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
453-00-9	Dibromofluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
460-22-2	Bromotrifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
460-25-3	Dibromodifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
460-35-5	Monochlorotrifluoropropane (HCFC-253)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
460-63-9	Trichlorodifluoropropane (HCFC-242)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
460-69-5	Dichlorotrifluoropropane (HCFC-243)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
460-73-1	Pentafluoropropane (HFC-245fa)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
460-86-6	Dibromotetrafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
460-89-9	Tetrachlorodifluoropropane (HCFC-232)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
460-92-4	Monochloropentafluoropropane (HCFC-235)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
471-43-2	Dichlorodifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
47672-31-1	Triphenyltin fatty acid salts (C=9-11)	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
4782-29-0	Bis(tributyltin) phthalate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
48122-14-1	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isom	Curing agent for epoxy resins, especially in the electric and electronics field	REACH Candidate List: 0.1%				D
49663-84-5	Pentazinc chromate octahydroxide	Mainly used in coatings in the vehicle coating and aeronautic / aerospace sectors.	REACH Candidate List, REACH Annex XIV				R
49690-94-0	Tribromodiphenylether	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
50-00-0	Formaldehyde	Biocide in lubricants, general used preservative in many products and applications as in paper products, cleaners, disinfectants, textile materials	REACH Annex XVII			WHITE decision: 0.005% free formaldehyde as biocide in lubricants. In general: 0.15% formaldehyde	R
50-29-3	DDT	Pesticide			Stockholm Convention		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
50-32-8	Benzo(a)pyrene( BaP)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Candidate List: 0.1% REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
50471-44-8	Vinclozolin	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2011				R
507-55-1	Dichloropentafluoropropane (HCFC-225cb)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
51200-87-4	Oxazolidine, (4,4'-Dimethyl)	Biocide in lubricants				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids; 0.2%	R
51207-31-9	Tetrachlorodibenzofuran, (2,3,7,8-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
513-78-0	Cadmium carbonate	Used as a pH regulator and in water treatment products, laboratory chemicals, cosmetics and personal care products.	REACH Candidate List 0.1%				D
513-79-1	Cobalt(II) carbonate	Cobalt(II) carbonate is mainly used in the manufacture of catalysts. Minor uses may include as a feed additive, in the manufacture of other chemicals including pigments, and as an adhesive in ground coat frit.	REACH Candidate List: 0.1%				D
51404-69-4	Acetic acid, lead salt, basic	Lead acetate is used in dyeing and pigmentation aid for textiles, hair products, paints etc. Use in Europe restricted under regulations on use of lead, but may be found in imported products, especially painted ornamental goods.	REACH Candidate List: 0.1%				D
5216-25-1	Chloro-benzotrichloride, para-	Intermediate in chemical synthesis of e.g. colorants, biocides	REACH Annex XVII				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
53469-21-9	Arochlor 1242	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
53-70-3	Dibenzo(a,h)anthracene (DBaH)	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
540-97-6	Dodecamethylcyclohexasiloxane (D6)	In silicone rubbers and polymers.	REACH Candidate List 0.1%				D
541-02-6	Decamethylcyclopentasiloxane (D5)	In silicone rubbers and polymers. Annex XVII: For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application.	REACH Candidate List: 0.1% REACH Annex XVII				R
542-88-1	Bis (chloromethyl) ether	In chemical synthesis				0.06%	R
5436-43-1	Tetrabromodiphenylether, (2,2',4,4'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
548-62-9	Dimethylammonium chloride, (4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene)]- (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EU No. 202-027-5) or Michler's base (EU No. 202-959-2)]	Colorant with uses that may include dyes and inks, including in ball pens, cosmetics such as soaps, dyeing of paper, card, plastic, wood, lacquers and coatings, analytical / R&D/diagnostic uses.	REACH Candidate List: 0.1%, REACH Annex XVII				D
552-30-7	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	Intermediate in chemical synthesis e.g. of polymers	REACH Candidate List 0.1%				D
553-00-4	Naphthylammoniumacetate, 2-	Intermediate in synthesis of dyes	REACH Annex XVII				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
556-67-2	Octamethylcyclotetrasiloxane (D4)	In silicone rubbers and polymers. Annex XVII: Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020.	REACH Candidate List: 0.1% REACH Annex XVII				R
55673-89-7	Heptachlorodibenzofuran, (1,2,3,4,7,8,9-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
55965-84-9	Isothiazol-3-one, 5-Chloro-2-methyl-2H-, mixture with 2-methyl-2H-isothiazol-3-one	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
561-41-1	Trityl alcohol, (4,4'-bis(dimethylamino)-4''-(methylamino)-) [with ≥ 0.1% of Michler's ketone (EU No. 202-027-5) or Michler's base (EU No. 202-959-2)]	Mainly used as a dye in writing inks. May be referred to as Solvent Violet 8, although the Color Index and CAS registry numbers do not necessarily match. Solvent Violet 8 is used in inks (including ballpoint pens and printer cartridges) and dyes. It may b	REACH Candidate List: 0.1%				D
56-23-5	Carbontetrachlorid	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	2037/2000/EC, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
5625-90-1	Methylene-bis-morpholine/Bis-morpholino-methane	Biocide in lubricants				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
56-35-9	bis(tributyltin)oxide (TBTO)	This substance is a biocide with major use in external wood treatment and ship descaling. It is possible that this substance could be found in some imported timber products	REACH Candidate List: 0.1%, Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
56-36-0	Tributyltin acetate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
56-55-3	Benzo(a)anthracene (BaA)	softening oils in rubber and plastic compounds/chemicals. Normally not produced intentionally but rather occurs as a constituent or impurity in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs	REACH Annex XVII: 0.0001% BaP; 0.001% sum of all listed PAHs				R
56773-42-3	Tetraethylammonium perfluorooctane sulfonate		(EU) 2019/1021				R
569-61-9	Benzenamine, 4,4'-(4-iminocyclohexa-2,5-dienylidene)methylene)dianiline hydrochloride	Dye and pigment, textile dye	REACH Annex XVII				R
57110-29-9	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isom	Curing agent for epoxy resins, especially in the electric and electronics field	REACH Candidate List: 0.1%				D
57117-31-4	Pentachlorodibenzofuran, (2,3,4,7,8-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
57117-41-6	Pentachlorodibenzofuran, (1,2,3,7,8-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
57117-44-9	Hexachlorodibenzofuran, (1,2,3,6,7,8-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
573-58-0	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	Direct Red 28 is a benzidine-based dyes	REACH Candidate List: 0.1%, REACH Annex XVII				D
57-74-9	Chlordan	Pesticide			Stockholm Convention		R
5873-54-1	Methylenediphenyl diisocyanate (MDI), 2,4'-	PU foam.	REACH Annex XVII: 0.1%			WHITE decision. Prohibited in foam packaging systems, use allowed in embedding of electronics and in adhesives	R
58-89-9	Lindane	Pesticide			Stockholm Convention		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
59080-40-9	Hexabromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
593-53-3	Fluoromethane (HFC-41)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
593-70-4	Monochlorofluoromethane (HCFC-31)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
59536-65-1	Polybrominated biphenyls	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
59653-74-6	Triazine-2,4,6-(1H,3H,5H)-trione, (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-), (I <sup>2</sup> -TGIC)	Epoxy compound. Used as hardener in resins and coatings. May be used in solder mask applications in production of printed circuit boards. Also used in weather resistant polyester-based powder coatings. May be found in electrical insulation materials, adhe	REACH Candidate List: 0.1%				D
598-63-0	Lead(II)carbonate	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
60-09-3	Amino-azobenzene, 4-	Also known as aniline yellow, CI 11000 or under many other common historical names. This chemical was implicated in the 1980s vegetable oil poisoning incident when added to industrial oil that was put into the food market. It is used in many industrial	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
60348-60-9	Pentabromodiphenylether, (2,2',4,4',5-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
605-50-5	Diisopentylphthalate	This phthalate is used as a plasticiser in plastic goods and may be present above 0.1% w/w in such articles. It is also used in the manufacture of propellants and explosives and as such may be found in ammunition and rifle powders above 0.1% w/w.	REACH Candidate List: 0.1%, REACH Annex XIV, REACH Annex XVII				R
60-57-1	Dieldrin	Pesticide			Stockholm Convention		R
6080-56-4	Lead(II)acetate, trihydrate	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
60851-34-5	Hexachlorodibenzofuran, (2,3,4,6,7,8-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
608-73-1	Technical hexachlorocyclohexane (mixture of isomers)	Pesticide			Stockholm Convention		R
608-93-5	Pentachlorobenzene	Pesticide, flame retardant	REACH Candidate List: 0.1%, REACH Annex XVII		Stockholm Convention		R
61288-13-9	Octabromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
615-05-4	Methoxy-m-phenylenediamine, 4-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
61788-32-7	Terphenyl, hydrogenated	Plasticiser in adhesives, sealants and coatings	REACH Candidate List 0.1%				D
61788-33-8	Polychlorinated terphenyls	Additive, heat transfer agent	REACH Annex XVII; 0.005%				R
61-82-5	Amitrol (Aminotriazol)	Herbicide	EU Reg. 540/2011 EC Reg. 1107/2009				R
62229-08-7	Sulfurous acid, lead salt, dibasic	Stabiliser used in production of pvc products	REACH Candidate List: 0.1%, REACH Annex XVII				D
624-49-7	Dimethyl fumarate	The substance is normally used as an additive to silica gel sold in small packs. The packs release DMFu during transport of products in order to avoid mold, mostly in furniture, textiles and footwear	REACH Candidate List: 0.1%, REACH Annex XVII				R
624-72-6	Difluoroethane(HFC-152)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
625-45-6	Methoxyacetic acid	Used in chemical synthesis, cleaning agent, metal finishing, cosmetics	REACH Candidate List: 0.1%				D
629-14-1	Diethoxyethane, 1,2-	This substance is a glycol ether and belongs to the glyme family of chemicals and is expected to have similar applications; monoglyme, diglyme and triglyme are also included on the Candidate List. Globally, common uses for glycol ethers are as a solvent i	REACH Candidate List: 0.1%				D
630-20-6	Tetrachloroethane (1,1,1,2-)	Solvent, degreasing agent	REACH Annex XVII: 0.1%				R
63387-28-0	Nonabromodiphenylether, (2,2',3,3',4,4',5,5',6-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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63936-56-1	Nonabromodiphenylether	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
63938-10-3	Chlorotetrafluoroethane HCFC-124)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
639-58-7	Tripheyltin chloride	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
64359-81-5	Isothiazolone- 3(2H)- 4,5-dichlor-2-octyl	Biocide, preservative, in lubricants and cutting fluids				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
6454-35-9	Bis(tributyltin) fumarate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
64-67-5	Diethyl sulphate	Used mainly as a reagent in chemical synthesis.	REACH Candidate List: 0.1%				D
6477-64-1	Lead dipicrate	No registration for this substance has been submitted to ECHA. Lead dipicrate is an explosive like lead diazide and lead styphnate. It may be used in low amounts in detonator mixtures together with the two other mentioned lead compounds.	REACH Candidate List: 0.1%, REACH Annex XVII				D
6517-25-5	Tributyltin sulfamate	Anti-fouling systems containing organotin compounds as a biocide, additive	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
65996-93-2	Pitch, coal tar, high temp.	Pitch, coal tar, high temp. is mainly used in the production of electrodes for industrial applications. Smaller volumes are dedicated to specific uses such as heavy duty corrosion protection, special purpose paving, and manufacture of other substances and	REACH Candidate List: 0.1%, REACH Annex XIV				R
661-97-2	Dichlorohexafluoropropane (CFC-216)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
666-27-3	Tetrachlorofluoropropane (HCFC-241)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
67-56-1	Methanol	Solvent. Annex XVII: Shall not be placed on the market to the general public after 9 May 2018 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0.6% by weight	REACH Annex XVII				R
67562-39-4	Heptachlorodibenzofuran, (1,2,3,4,6,7,8-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
67-66-3	Chloroform	Solvent, degreasing agent	REACH Annex XVII: 0.1%				R
67-72-1	Hexachlorethane	In manufacturing or processing non-ferrous metals	REACH Annex XVII				R
677-56-5	Hexafluoropropane (HFC-236cb)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
67774-32-7	Hexabromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
67797-09-5	Octabromodiphenylether, (2,2',3,3',5,5',6,6'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	2003/11/EC; RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
678-26-2	Dodecafluoropentane (PFC-4-1-12)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
6786-83-0	Naphthalene-1-methanol, $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)- (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EU No. 202-027-5) or Michler's base (EU No. 202-959-2)]	Colorant with uses that may include dyes and inks, including in ball pens, cosmetics such as soaps, fuels, dyeing of paper, card, plastic, wood, lacquers and coatings, analytical / R&D/diagnostic uses. May be found in Wind screen washing fluid.	REACH Candidate List: 0.1%				D
679-84-5	Bromotetrafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
679-85-6	Monochlorotetrafluoropropane (HCFC-244)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
679-86-7	Pentafluoropropane (HFC-245ca)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
6807-17-6	Methylpentane, - 4 (2,2-bis(4'-hydroxyphenyl))	Unlikely. 2,2-bis(4'-hydroxyphenyl)-4-methylpentane is also known as BisP-MIBK and may be used as an alternative to Bisphenol A (BPA). As such, BisP-MIBK may be found in thermal paper applications up to 3% by weight of the paper. BisP-MIBK may also be used as an ingredient in the manufacture of specialist polycarbonate plastic and specialist epoxy resins, however the residual level of BisP-MIBK in the manufacture of these specialist materials is below 0.01%.	REACH Candidate List 0.1%				D
68-12-2	Formamide, N,N-dimethyl-	DMF is used as a reagent and solvent in many industrial applications in the chemical industry. It is also used in the production and cleaning of polyurethane synthetic/artificial leather and some plastics. It may be used as a degreaser in the metal and el	REACH Candidate List: 0.1%, REACH Annex XVII				D
683-18-1	Dibutyltin dichloride (DBTC)	This substance is used as an additive in the production of tyres and other rubber products. It is also used as a stabiliser in PVC, for example in water pipes, PVC textile products and packing materials), as a catalyst in the production of polyurethanes a	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
68515-42-4	Benzene-1,2-dicarboxylic acid, di-C7-11-branched and linear alkyl esters	This substance may be used as a plasticizer for PVC.	REACH Candidate List: 0.1%, REACH Annex XIV				R
68515-50-4	Benzenedicarboxylic acid (1,2-), dihexyl ester, branched and linear	UVCB substance	REACH Candidate List: 0.1%, REACH Annex XIV				D
68515-51-5	Benzenedicarboxylic acid, (1,2-), di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	These substances are used for example as plasticisers and lubricants, including use in adhesives, coatings, building material, cable compounding, polymer foils, PVC compounds and artist supply (e.g. modelling clay and finger paints).	REACH Candidate List: 0.1%, REACH Annex XIV				D
68631-49-2	Hexabromodiphenylether, (2,2',4,4',5,5'-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
68648-93-1	Benzenedicarboxylic acid, (1,2-), di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	These substances are used for example as plasticisers and lubricants, including use in adhesives, coatings, building material, cable compounding, polymer foils, PVC compounds and artist supply (e.g. modelling clay and finger paints).	REACH Candidate List: 0.1%, REACH Annex XIV				D
68784-75-8	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compound	UV fluorescent tubes	REACH Candidate List: 0.1%, REACH Annex XVII				D
688-73-3	Tributyltin hydride	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
68920-70-7	Alkanes, C6-18, chloro (Short Chain Chlorinated Paraffins)	SCCPs have had a variety of uses, including extreme pressure additives in metalworking fluids, flame retardants and plasticiser for rubbers and textiles, in leather processing and as a plasticiser in paints and sealing compounds.			Stockholm Convention		R
68928-80-3	Heptabromodiphenylether	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	(EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
69011-06-9	Dioxotrilead,[Phthalato(2-)]	Stabiliser used in production of pvc products	REACH Candidate List: 0.1%, REACH Annex XVII				D
690-39-1	Hexafluoropropane (HFC-236fa)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
70225-14-8	Diethanolammonium perfluorooctane sulfonate		(EU) 2019/1021				R
70648-26-9	Hexachlorodibenzofuran, (1,2,3,4,7,8-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
70776-03-3	Polychlorinated naphthalenes (more than 1 chlorine atoms)	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.005% Stockholm Convention		R
7094-94-2	Triphenyltin chloroacetate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
71011-12-6	Alkanes, C12-13, chloro (Short Chain Chlorinated Paraffins)	SCCPs have had a variety of uses, including extreme pressure additives in metalworking fluids, flame retardants and plasticiser for rubbers and textiles, in leather processing and as a plasticiser in paints and sealing compounds.			Stockholm Convention		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7125-83-9	Propane, 1,1,1-Trichloro-3,3,3-trifluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
7125-84-0	Trichlorotrifluoropropane (HCFC-233)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
7125-99-7	Propane, 1,1-Dichloro-1,2,2-trifluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
71-43-2	Benzene	Solvent, degreasing agent	REACH Annex XVII: 0.0005%				R
71-48-7	Cobalt(II) diacetate	Cobalt(II) diacetate is mainly used in the manufacture of catalysts or as a catalyst. Minor uses may include the manufacture of other chemicals including pigments, surface treatments, in alloys, dyes, rubber adhesion, and as a feed additive.	REACH Candidate List: 0.1%				D
71-55-6	Methylchloroform	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	2037/2000/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
71850-09-4	Diisohexyl phthalate	Plasticiser used in flexible polymers and rubbers, inks, lacquers and sealants.	REACH Candidate List: 0.1%				D
71868-10-5	Morpholinopropan-1-one (2-methyl-1-(4-methylthiophenyl)-2-)	Photoinitiator added to UV curable inks, toners, adhesives, resins, paints and other coatings.	REACH Candidate List: 0.1%				D



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
71888-89-6	Benzene-1,2-dicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	This substance may be used as a plasticizer for PVC and some ink and coatings formulations.	REACH Candidate List: 0.1%, REACH Annex XIV, REACH Annex XVII				R
72-20-8	Endrin	Pesticide			Stockholm Convention		R
72629-94-8	Pentacosfluorotridecanoic acid	Processing aids in the production of fluoropolymers and fluoroelastomers and in other surfactant uses / impurity. Laboratory chemical.	REACH Candidate List: 0.1%				D
72918-21-9	Hexachlorodibenzofuran, (1,2,3,7,8,9-)	Pesticides, additives, Combustion pollutants			Stockholm Convention		R
7439-92-1	Lead	Lead, and as an element in metals and alloys	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%, Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
7439-97-6	Mercury	In fluorescent lamps, electric switches, luminescent materials, manufacture of industrial chemicals, in electrical and electronic applications, in thermometers, amalgams	EU Reg. 2017/852; REACH Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); Battery: 0.0005%; ELV	Hong Kong Convention MEPC.269(68), 2015: 0.1%, Minamata Convention 0%		R
7440-24-6	Strontium	Radioactive substance, many uses	(EU) No. 1257/2013	EURATOM	Hong Kong Convention MEPC.269(68), 2015		R
7440-38-2	Arsenic	Pb and Cu alloys, metal adhesives, soft solders, electronics and pigments.	REACH Annex XVII				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7440-43-9	Cadmium	Stabilizers in polymers like PVC, Used in pigments in paints and plastics, present also in electronics. In soldering materials	REACH Annex XVII: Prohibited in polymers (0.01%); In paints on products:(0.1%); (EU) No. 1257/2013	RoHS: 0.01%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); Battery 0.002%, ELV	Hong Kong Convention MEPC.269(68), 2015: 0.01%		R
7440-46-2	Cesium	Radioactive substance, many uses	(EU) No. 1257/2013	EURATOM	Hong Kong Convention MEPC.269(68), 2015		R
7446-14-2	Lead(II)sulfate	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
7446-27-7	Lead phosphate	In pigments, additives, corrosion inhibitors	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
74-83-9	Methylbromide	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7487-94-7	Mercury(II)chloride	In lamps, electric switches, luminescent materials	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
74-97-5	Bromochloromethane (Halon-1011)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
75-09-2	Dichloromethane	Solvent, paint stripper, degreaser, propellant, blowing agent	REACH Annex XVII, 0.1%			WHITE decision. Prohibited as a solvent.	R
75-10-5	Difluoromethane (HFC-32)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
75-12-7	Formamide	An intermediate used in the manufacture of pharmaceuticals and vitamins. Also used as a solvent, and as a laboratory reagent. May also be used in the production of pyrimidines, in hydrogen cyanide production, as an intermediate for paper finishing and as	REACH Candidate List: 0.1%				D
75-35-4	Dichloroethene (1,1-)	Solvent, degreasing agent	REACH Annex XVII: 0.1%				R
75-37-6	Difluorethane (HFC-152a)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
75-43-4	Dichlorofluoromethane (HCFC-21)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention	EPA Ozone Layer protection	R
75-45-6	Monochlorodifluoromethane (HCFC-22 )	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention	EPA Ozone Layer protection	R
75-46-7	Carbon trifluoride (HFC-23)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
75-56-9	Methyloxirane (Propylene oxide)	Intermediate in the production of polyether polyols and glycols for use in making polyurethane plastics and resins. Also used in the preparation of lubricants, surfactants, and oil demulsifiers. Used as a fumigant for dried fruits and treating wood for t	REACH Candidate List: 0.1%				D
75635-23-3	Trifluoralin	Pesticide	EU ban since 2009				R
75-63-8	Bromotrifluoromethane (Halon-1301)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
75-68-3	Monochlorodifluoroethane (HCFC-142b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
75-69-4	Trichlorofluoromethane (CFC-11)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
75-71-8	Dichlorodifluoromethane (CFC-12)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
75-72-9	Chlorotrifluoromethane (CFC-13)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
75-73-0	Tetrafluoromethane (PFC-14)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R
75-88-7	Monochlorotrifluoroethane (HCFC-133a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
76-01-7	Pentachloroethane	Solvent, degreasing agent	REACH Annex XVII: 0.1%				R
76-12-0	Tetrachlorodifluoroethane (CFC-112)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
76-13-1	Trichlorotrifluoroethane (CFC-113), 1,1,2-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	REACH Candidate List: 0.1%, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
76-14-2	Dichlorotetrafluoroethane (CFC-114)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
76-15-3	Monochloropentafluoroethane H(CFC-115)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
76-16-4	Hexafluoroethane (PFC-116)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R
76-17-5	Trichloropentafluoropropane, 1,2,3-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
76-19-7	Octafluoropropane (PFC-218)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R
762-49-2	Bromofluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
76253-60-6	Monomethyl-tetrachlorodiphenyl methane	Replacement for PCB	REACH Candidate List: 0.1%, REACH Annex XVII				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
04.04.7632	Sodium peroxometaborate	A source of active oxygen in many detergents	REACH Candidate List: 0.1%, REACH Annex XIV				D
76-44-8	Heptachlor	Pesticide			Stockholm Convention		R
7646-79-9	Cobalt dichloride	The most common use is for the detection of moisture, for example as a color indicator in drying agents such as silica gel. Paper impregnated with cobalt chloride, known as "cobalt chloride paper" has been used to detect the presence of water. This substa	REACH Candidate List: 0.1%				D
76-87-9	Triphenyltin hydroxide	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
77-09-8	Phenolphthalein	Mainly used as laboratory agent (in pH indicator solutions), for the production of pH-indicator paper and in medicinal products.	REACH Candidate List: 0.1%				D
7738-94-5	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	Acids generated from chromium trioxide and their oligomers are mainly used in metal finishing, such as electroplating (e.g. hard chrome and decorative plating), conversion coatings and brightening. It is also used as a fixing agent in waterborne wood pres	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
77536-66-4	Actinolite	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
77536-67-5	Anthophyllite	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
77536-68-6	Tremolite	In insulating material in buildings and in products. Severe precautions should be taken in refurbishing asbestos containing buildings	REACH Annex XVII; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
77-58-7	dibutyltin dilaurate (DBTL)	In plasticizers and metals, antifouling agents (TBT)	REACH Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
7758-97-6	Lead chromate	Lead chromate is used for manufacturing pigments and dyes, and as a pigment or coating agent in industrial and maritime paint products or varnishes. Further potential uses may be associated with the formulation of detergents and bleaches, photosensitive m	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
776297-69-9	Phthalate, n-pentyl-isopentyl-	Plasticiser for plastic products, adhesives, paints, etc. Not pre-registered, so use likely to be low or present as an impurity.	REACH Candidate List: 0.1%, REACH Annex XIV				R
7775-11-3	Sodium chromate	Sodium chromate is mainly used as an intermediate in the manufacture of other chromium compounds as well as a laboratory analytical agent, but this use is limited. Other potential uses are mentioned in the literature but whether they occur in the EU is no	REACH Candidate List, REACH Annex XIV				R
77-78-1	Dimethyl sulphate	Dimethyl sulfate is a strong methylating agent used to convert compounds such as phenols, amines, and thiols to the corresponding methyl derivatives. It is also used as a methylating or sulfating agent in the manufacture of methyl esters, ethers, and amin	REACH Candidate List: 0.1%				D
7778-39-4	Arsenic acid	Mainly used to remove gas bubbles from ceramic glass melt and in the production of laminated printed circuit boards.	REACH Candidate List, REACH Annex XIV, REACH Annex XVII				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7778-44-1	Calcium arsenate	Calcium arsenate is present in complex raw materials imported for manufacture of copper, lead and a range of precious metals. It appears mainly to be used as precipitating agent in copper smelting and to manufacture diarsenic trioxide. However, most of th	REACH Candidate List: 0.1%				D
7778-50-9	Potassium dichromate	Potassium dichromate is used for chrome metal manufacturing and as corrosion inhibitor for treatment and coating of metals. It is further used as textile mordant, as laboratory analytical agent, for cleaning of laboratory glassware, in the manufacture of	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
7783-35-9	Mercuric sulfate	In lamps, electric switches, luminescent materials	REACH Annex XVII; (EU) No. 1257/2013	Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm)	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
7784-40-9	Lead hydrogen arsenate	An insecticide for food. It has been widely banned for many years. This substance is very unlikely to be present in articles above 0.1%.	REACH Candidate List: 0.1%, Annex XVII				D
7789-00-6	Potassium chromate	Potassium chromate is used as a corrosion inhibitor for treatment and coating of metals, for manufacture of reagents, chemicals and textiles, as a coloring agent in ceramics, in the manufacture of pigments/inks and in the laboratory as analytical agent.	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
7789-06-2	Strontium chromate	Strontium chromate pigment is used as an anti-corrosion ingredient for some paints. It has uses in coatings for the aerospace and vehicle sectors as well as in coil coating applications.	REACH Candidate List, REACH Annex XIV				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7789-09-5	Ammonium dichromate	Ammonium dichromate is mainly used as an oxidizing agent. Other known uses are in the manufacture of photosensitive screens and as mordant in the manufacture of textiles. Minor uses seem to comprise metal treatment and laboratory analytical agent	REACH Candidate List, REACH Annex XIV				R
7789-12-0	Sodium dichromate	This substance is an important reagent for the production of a wide range of chemicals. It is also used in metal finishing process, leather tanning and in some ceramics / glasses. This substance is very unlikely to be present in articles above 0.1% except	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
7790-79-6	Cadmium fluoride	Used in the manufacture of glass and phosphors, and in the production of metallic alloys. Also used in optics and electronics, luminescent screens, solar cells, electric brushes, dielectric ceramics for capacitors, as a fluxing agent in brazing and solder	REACH Candidate List: 0.1%				D
7799-56-6	Propane, 1,1-Dichloro-1-fluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
78-00-2	Tetraethyllead	Formerly used as an antiknock additive in leaded petrol. It is still used as an additive in aviation fuel for piston engine-powered aircraft.	REACH Candidate List: 0.1%, REACH Annex XVII				D
7803-57-8	Hydrazine	Hydrazine is used as a foaming agent, as a precursor to polymerization catalysts and pharmaceuticals. Additionally, hydrazine is used in various rocket fuels and to prepare the gas precursors used in air bags. Hydrazine is also used as a corrosion inhibitor	REACH Candidate List: 0.1%				D
78-30-8	Tri(ortho)cresylphosphate	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				WHITE decision (Only in metal working/cutting fluids). Ortho-TCP: 0.5%. The sum of Meta- and Para-TCP: 5%.	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
78-32-0	Tricresylphosphate (all isomers except ortho)	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				WHITE decision (Only in metal working/cutting fluids). Ortho-TCP: 0.5%. The sum of Meta- and Para-TCP: 5%.	R
79-00-5	Trichloroethane (1,1,2-)	Solvent, degreasing agent	REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015		R
79-01-6	Trichloroethylene ("TRI")	Trichloroethylene is mainly used as intermediate in the manufacture of chlorinated and fluorinated organic compounds. Other uses are for cleaning and degreasing of metal parts or as solvent in adhesives.	REACH Candidate List, REACH Annex XIV			WHITE decision. General ban since 1985.	R
79-06-1	Acrylamide	Acrylamide is almost exclusively used for the synthesis of polyacrylamides, which are used in various applications, in particular in waste water treatment and paper processing. Minor uses of acrylamide comprise the preparation of polyacrylamide gels for r	REACH Candidate List: 0.1%, Annex XVII: 0.1%				R
79-16-3	Acetamide, N-methyl-	Intermediate for chemical synthesis in the production of pharmaceuticals, pesticides and electronic materials	REACH Candidate List: 0.1%				D
79-34-5	Tetrachloroethane (1,1,2,2-)	Solvent, degreasing agent	REACH Annex XVII: 0.1%				R
8001-35-2	Toxaphene	Insecticide			Stockholm Convention		R
8001-58-9	Creosote	In wood preservatives, packaging materials	REACH Annex XVII				R
80-05-7	Bisphenol A	Production of polymers, Manufacture of polycarbonate epoxy resins and chemicals; hardener in epoxy resins, in thermal paper	REACH Candidate List 0.1%, REACH Annex XVII 0.02%				D
8012-00-8	Pyrochlore, antimony lead yellow	Pigment in paints and enamels	REACH Candidate List: 0.1%, REACH Annex XVII				D
80-46-6	Phenol, p-(1,1-dimethylpropyl)-	Manufacture of chemicals and plastic products	REACH Candidate List 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
81-15-2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	A fragrance which may be incorporated into complex fragrance mixtures. Although not manufactured in the EU it may be formulated into imported fragrance compositions. This substance is very unlikely to be present in any EU produced articles. BUT it may be	REACH Candidate List, REACH Annex XIV				R
81161-70-8	Monomethyl-dichloro-diphenyl methane	Replacement for PCB	Reach Annex XVII				R
811-95-0	Trichlorofluoroethane (HCFC-131b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
811-97-2	Tetrafluoroethane (HFC-134a)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
812-04-4	Dichlorotrifluoroethane (HCFC-123b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
818-99-5	Propane, 1,1,3-Trichloro-1-fluoro-	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
819-00-1	Dichlorodifluoropropane (HCFC-252)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
838-88-0	Methylenedi-o-toluidine, 4,4`-	This substance is used as an intermediate in the production of elastomers, dyes and colourants.	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
84-61-7	Dicyclohexyl phthalate (DCHP)	Plasticiser in PVC, polyvinyl acetate, plastisol, chlorinated rubber and other plastic polymers, with typical addition rates up to 10 % by weight of the plastic.	REACH Candidate List 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
84-69-5	Diisobutyl phthalate	Diisobutyl phthalate is used as plasticiser for nitrocellulose, cellulose ether, polyacrylate and polyacetate dispersions, and as a gelling aid in combination with other plasticisers, which are widely used for plastics, lacquers, adhesives, explosive mate	REACH Candidate List 0.1%, REACH Annex XIV, REACH Annex XVII	RoHS: 0.1% (2019)			R
84-74-2	Dibutyl phthalate (DBP)	This substance has widespread historical use as a plasticiser. It was also used as an additive to adhesives or printing inks. Although responsible industry has been phasing out the use of this substance there are concerns that it is still widely used. Whe	REACH Candidate List, REACH Annex XIV, REACH Annex XVII	RoHS: 0.1% (2019)			R
84-75-3	Dihexyl phthalate	This phthalate is used as a plasticizer for PVC	REACH Candidate List: 0.1%, REACH Annex XVII				D
84777-06-0	Benzenedicarboxylic acid (1,2-), dipentylester, branched and linear	This phthalate may be used as a plasticiser for plastic materials. It was not registered for the 2010 deadline and thus is thought to be in low usage in the EEA. However, it may be present in imported plastic articles.	REACH Candidate List: 0.1%, REACH Annex XIV				R
84852-15-3	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a c	Surface active agents	REACH Annex XVII: 0.1%				R
85-01-8	Phenanthrene	Unlikely. Phenanthrene is a Polycyclic Aromatic Hydrocarbon (PAH) which may be present as impurities in extender oils which may be used as plasticizers in rubber and plastics and in potting materials. Phenanthrene may also be present as impurities in black colourants (e.g. Carbon Black) which may be used in rubber and plastics.	REACH Candidate List 0.1%				D
85409-17-2	Stannane, tributyl-, mono(naphthenoyloxy) derivs.	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
85-42-7	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans	Used as hardeners for epoxy resins, intermediates for alkyds, plasticizers, insect repellents and rust inhibitors	REACH Candidate List: 0.1%				D
85535-84-8	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	SCCPs have had a variety of uses, including extreme pressure additives in metalworking fluids, flame retardants and plasticiser for rubbers and textiles, in leather processing and as a plasticiser in paints and sealing compounds. The major recent use has	REACH Candidate List: 0.1% (EU) 2019/1021, EU 2030/2015, 1% in mixtures, 0.15% in articles; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015; 1%		D
85536-22-7	Alkanes, C12-14, chloro (Short Chain Chlorinated Paraffins)	SCCPs have had a variety of uses, including extreme pressure additives in metalworking fluids, flame retardants and plasticiser for rubbers and textiles, in leather processing and as a plasticiser in paints and sealing compounds.			Stockholm Convention		R
85681-73-8	Alkanes, C10-14, chloro (Short Chain Chlorinated Paraffins)	SCCPs have had a variety of uses, including extreme pressure additives in metalworking fluids, flame retardants and plasticiser for rubbers and textiles, in leather processing and as a plasticiser in paints and sealing compounds.			Stockholm Convention		R
85-68-7	Benzyl butyl phthalate (BBP)	Mostly used as a plasticiser for PVC, commonly in floor tiles. Other uses include in food conveyor belts, and artificial leather. This substance may be present above 0.1% in the articles described above. Action required to investigate, particularly in the	REACH Candidate List, REACH Annex XIV, REACH Annex XVII	RoHS: 0.1% (2019)			R
872-50-4	Pyrrolidone, 1-Methyl-2-	This substance is used as an intermediate and as an industrial solvent for surface treatment of textiles, resins and metal coated plastics or as a paint stripper. It is also used in the pharmaceutical and agrochemical industries. Restrictions entry 71.	REACH Candidate List: 0.1%, REACH Annex XVII				D
87-68-3	Hexachlorobutadiene	Used in rubber compounds, as a solvent, in lubricants, and as a hydraulic fluid			Stockholm Convention	TSCA section 6(h), 15 U.S.C 2605(h) 40 CFR 751, 86 FR 922, January 2021.	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
87-86-5	Pentachlorophenol	Pesticide	(EU) 2021/277 (EU) 2019/1021 REACH Annex XVII; 0.1%		Stockholm Convention		R
88-85-7	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	Miticide, herbicide (withdrawn from use). High temperature polymerization inhibitor for styrene, methylstyrene and other styrene analogues. Also used as organic intermediate	REACH Candidate List: 0.1%				D
90-04-0	Methoxyaniline, 2-	Mainly used in the manufacture of dyes for tattooing and coloration of paper, polymers and aluminum foil.	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
900-95-8	Triphenyltin acetate	Anti-fouling systems containing organotin compounds as a biocide, additive	EC Reg. 782/2003; REACH Annex XVII: 0.1%; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
90454-18-5	Dichloro-1,1,2-trifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
90640-80-5	Anthracene oil	The listed anthracene oil based substances are mainly used in the manufacture of other substances such as anthracene and carbon black. They may also be used as reducing agents in blast furnaces, as components in bunker fuel, for impregnating, sealing and	REACH Candidate List: 0.1%, REACH Annex XIV				R
90640-81-6	Anthracene oil, anthracene paste	synthesis, production of dyes	REACH Candidate List: 0.1%				D
90640-82-7	Anthracene oil, anthracene-low	synthesis, production of dyes	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
90-94-8	Benzophenone, 4,4'-bis(dimethylamino)- (Michler's ketone)	Important intermediate in the manufacture of triphenylmethane dyes. May be used as a colouring agent in the paper and paper products sector. May be present in dyes and pigments as a photosensitizer. May be present as an impurity in other substances used a	REACH Candidate List: 0.1%				D
91031-62-8	Fatty acids, C16-18, lead salts	Stabiliser used in production of pvc products, particularly construction products such as piping, cables, etc.	REACH Candidate List: 0.1%, REACH Annex XVII				D
91-22-5	Quinoline	Manufacture of dyes	REACH Annex XVII				R
91-59-8	Naphthylamine, 2-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
91-94-1	Dichlorobenzidine, 3,3`-	In dyes for textiles etc., packaging materials	REACH Anex XVII: 0,003% (30ppm)				R
91995-15-2	Anthracene oil, anthracene paste, anthracene fraction	synthesis, production of dyes	REACH Candidate List: 0.1%				D
91995-17-4	Anthracene oil, anthracene paste,distn. lights	synthesis, production of dyes	REACH Candidate List: 0.1%				D
92-66-0	Bromobiphenyl, (4-)	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R
92-67-1	Aminobiphenyl, 4-	Starting chemical for many azo dyes and will be a residue from production or may even form as a metabolite (breakdown product) from certain materials. Possible residue in textiles and coloured materials	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
92-86-4	Dibromobiphenyl	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	REACH Annex XVII: 0.1%; (EU) No. 1257/2013	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.269(68), 2015: 0.005%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
92-87-5	Benzidine	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
92-93-3	Nitrobiphenyl, 4-		REACH Annex XVII: 0.1 %				R
95-53-4	Aminotoluene, 2-	Intermediate in chemical synthesis of herbicides, rubber chemicals, dye and pigment intermediates, resin hardeners, fungicide intermediates, pharmaceutical intermediates, and others	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
95-69-2	Chloro-o-toluidine, 4-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
95-76-1	Dichloroaniline, 3,4-	Manufacture of chemicals					D
95-80-7	Methyl-1,3-benzenediamine, 4-	Used mainly as an intermediate, but also may appear as residue in polyurethane foams from polymer production	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
959-98-8	Endosulfan	Insecticide			Stockholm Convention		R
96-18-4	Propane, 1,2,3-Trichloro-	TCP is used as an industrial solvent, as a monomer and as an intermediate for the synthesis of chlorinated solvents, some cross-linking agents and chlorinated solvents. Historically it had uses in consumer products such as paint strippers but must no long	REACH Candidate List: 0.1%				D
96-45-7	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	This substance is used as a vulcanisation agent and in the production of tyres and general rubber goods	REACH Candidate List: 0.1%				D
97-56-3	Amino-2',3-dimethylazobenzene, 4-	Azo dye, may be used as a staining agent in biological sciences. Formerly used for coloring oils, fats, and waxes.	REACH Candidate List: 0.1%, Annex XVII: 0,003% (30ppm)				R
98-07-7	Benzotrichloride	Intermediate in chemical synthesis of e.g. colorants, biocides	REACH Annex XVII				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
98-54-4	tert-butylphenol, 4-	Used in coating products, polymers, adhesives, sealants and for the synthesis of other substances.	REACH Candidate List: 0.1%				D
98-95-3	Nitrobenzene	Manufacture of other substances	REACH Candidate List: 0.1%				D
99-55-8	Nitro-o-toluidine, 5-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
99688-47-8	Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene	Brominated flame retardant in electronic and electrical parts, in plastics and polymers etc.	Reach Annex XVII				R
99-99-0	Nitrotoluene, 4-	Manufacture of chemicals					D
All	Cresylphosphates	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Dicresylphosphates	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Formaldehyde releasing substances (e.g. below)	Biocide in lubricants				WHITE decision: 0.005% free formaldehyde as biocide in lubricants. In general: 0.15% formaldehyde	R
All	Isothiazolones	Biocide in lubricants				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Mercaptobenzothiazoles	Biocide in lubricants				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Mineral oil with PAH (e.g. below)	Base oils				WHITE decision; 0.005% (50 ppm) Benz(a)pyren, 3% DMSO extract for the base oil	R
All	Morpholine releasing substances	Biocide in lubricants				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Tall oil distillates which contains adipinic acid	Extreme pressure additive				WHITE decision. Only prohibited for use in cutting/cooling (metal working) fluids	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Tricresylphosphates (TCP)	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				WHITE decision (only in metal working/cutting fluids). Ortho-TCP: 0.5%. The sum of Meta- and Para-TCP: 5%.	R
All	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] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	This group of substances covers for example, the product with the trade name "karanal". Public information sources indicate that the main use of karanal is as a fragrance ingredient.	REACH Candidate List: 0.1%, REACH Annex XIV				D
All	PAH	Softening oils in rubber and plastic compounds/chemicals and as contaminant in many materials. In rubber compounds/chemicals. May be present in cable, cords and plugs.	REACH Annex XVII				R
All	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	Manufacture of polymers; formulation into lubricants	REACH Candidate List 0.1%				D
All	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, whic	Surface active agents	REACH Annex XVII: 0.1%				R
All	All Amines (secondary) which facilitate the formation of nitrosamines (e.g. below)	Corrosion protection, pH stabilizer				TRGS 611; 615, 0.2%	R
All	Aluminosilicate Refractory Ceramic Fibres <i> are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EU) No 1272/2008 of the European Parliament and of the Council of 16 DEUember 2008 on classification, labelling	Used for high-temperature insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process eq	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Cadmium compounds	Stabilizers in polymers like PVC, Used in pigments in paints and plastics, present also in electronics. In soldering materials	REACH Annex XVII: Prohibited in polymers (0.01%); In paints on products				R
All	Chlorofluorocarbons (CFC)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
All	Chromium 6+ compounds	Chromium pigments, chromated surfaces, corrosion inhibitors.	REACH Candidate List, REACH Annex XIV, Annex XVII; (EU) No. 1257/2013	RoHS: 0.1%; Packaging sum of mercury, cadmium, lead and hexavalent chromium less than: 0.01% (100ppm); ELV 2g/car	Hong Kong Convention MEPC.269(68), 2015: 0.1%		R
All	Dechlorane Plus. 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.0 5,10]octadeca-7,15-diene("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	Used as a non-plasticising flame retardant, used in adhesives and sealants and in binding agents.	REACH Candidate List 0.1%				D
All	HFC (Hydrofluorocarbons)	In heat pumps, refrigeration and air-conditioning and sprays	EU 517/2014		Kyoto Protocol		R
All	Hydrobromofluorocarbons (HBrFC)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R
All	Hydrochlorofluorocarbons (HCFC)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	1005/2009/EC; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.269(68), 2015	EPA Ozone Layer protection	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Manmade mineral fibers with proven carcinogenic effects	Applies to work processes where there is a risk of exposure to respirable fibers				Part of national regulations in some European countries	D
All	Mercury compounds	In lamps, electric switches, luminescent materials	REACH Annex XVII		Minamata Convention		R
All	Nonylphenol ethoxylates	Surface active agents	REACH Annex XVII				R
All	Nonylphenol, 4-, branched and linear <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers o	This is part of the alkyl phenol ethoxylate group of substances used in detergents, inks, etc and have been voluntarily removed from the market by many companies. One concern is endocrine effects from environmental release. Found in printed papers, espe	REACH Candidate List: 0.1%, REACH Annex XIV				R
All	Nonylphenol, 4-, branched and linear, ethoxylated	Cleaning agents	REACH Candidate List: 0.1%				D
All	Nonylphenols	Surface active agents	REACH Annex XVII: 0.1%				R
All	Organotin (Mono-, di-, and trialkyl and -aryl tin compounds) (e.g. below)	In plasticizers and metals, antifouling agents (TBT)	REACH Annex XVII: 0.1 %; EC Reg. 782/2003; (EU) No. 1257/2013		Hong Kong Convention MEPC.269(68), 2015: 0.25%		R
All	Pentachlorophenol and by-products of its synthesis (complex mixture)	Pesticide, disinfectant	(EU) No. 1257/2013 ( EU) 2019/1021 (EU) 2021/277		Stockholm Convention; California Prop65		R
All	Perfluorobutane sulfonic acid (PFBS) and its salts	Water soluble surfactants and water resistant coatings in textiles, leather and carpets. May be used in coatings, paints and varnishes and as catalyst, additive or reactant in polymer manufacture.	REACH Candidate List: 0.1%				D
All	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	Plasticiser, lubricant, wetting agent, corrosion inhibitor and in fire-fighting foams	REACH Candidate List 0.1%				D
All	PFC (Perfluorocarbons)	For PFC: also in fire extinguisher and equipment.	EU 517/2014		Kyoto Protocol		R

# WHITE NEGATIVE LIST

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Phenol (4-(1,1,3,3-tetramethylbutyl)-, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	This is part of the alkyl phenol ethoxylate group of substances used in detergents, inks, etc and have been voluntarily removed from the market by many companies. One concern is endocrine effects from environmental release. Found in printed papers, espe	REACH Candidate List: 0.1%, REACH Annex XIV				R
All	Polychlorinated dibenzo-p-dioxins	Inceneration and combustion pollutant			Stockholm Convention		R
All	Radioactive substances	Many uses	(EU) No. 1257/2013	EURATOM	Hong Kong Convention MEPC.269(68), 2015 no treshold value		R
All	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)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	Used as a heat stabilizer in the production of rigid PVC and some other plastics; may be found in some adhesives and pigment dispersions.	REACH Candidate List: 0.1%				D
All	Reaction products of 1,3,4-triazolium-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	Used as a lubricant additive in lubricants and greases.	REACH Candidate List 0.1%			WHITE decision (only in metal working/cutting fluids).	D
All	Silanetriol, (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-. Any of its mono, di- or tri-O-(alkyl) derivatives (TDFAs)	Additive combined with organic solvents, in spray products	REACH Annex XVII, 2ppb				R
All	Sodium perborate; perboric acid, sodium salt	A source of active oxygen in many detergents	REACH Candidate List: 0.1%				D
All	tetrahydro (2,3,5,5'-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	Processing aid in the production of fluorinated polymers.	REACH Candidate List: 0.1%				D
All	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	Primarily used as an antioxidant to stabilise polymers	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EU) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification,	Used for high-temperature insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process eq	REACH Candidate List: 0.1%				D
1072-63-5	Vinylimidazole, 1-	In formulations and as a monomer in the production of polymers	REACH Candidate List: 0.1%				D
693-98-1	Methylimidazole, 2-	As a catalyst in the production of coating products	REACH Candidate List: 0.1%				D
22673-19-4	Dibutylbis(pentane-2,4-dionato-O,O')tin	As a catalyst and as an additive in the production of plastics	REACH Candidate List: 0.1%				D
94-26-8	Butyl 4-hydroxybenzoate (Butylparaben)	Cosmetics, personal care products and pharmaceuticals	REACH Candidate List: 0.1%				D
11138-47-9	Perboric acid, sodium salt	A source of active oxygen in many detergents	REACH Candidate List: 0.1%, REACH Annex XIV				R
15120-21-5	Sodium perborate	A source of active oxygen in many detergents	REACH Candidate List: 0.1%, REACH Annex XIV				R
All	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	Additive to PVC to make it more stable to heating and to protect against degradation from sunlight. Dioctyltin dilaurate can also be used as a catalyst for the production of plastics including polyurethanes and certain silicones, and for room temperature vulcanisation (RTV) silicone rubber systems.	REACH Candidate List: 0.1%				D
143-24-8	Bis(2-(2-methoxyethoxy)ethyl)ether	Solvent, also known as tetraglyme, may be used as a solvent in battery electrolytes for sealed lithium ion batteries.	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
3648-18-8	Diocetyl tin dilaurate	Additive to PVC to make it more stable to heating and to protect against degradation from sunlight. Diocetyl tin dilaurate can also be used as a catalyst for the production of plastics including polyurethanes and certain silicones, and for room temperature vulcanisation (RTV) silicone rubber systems.	REACH Candidate List: 0.1%				D
91648-39-4	Stannane, dioctyl-, bis(coco acyloxy) derivs.	Additive to PVC to make it more stable to heating and to protect against degradation from sunlight. Diocetyl tin dilaurate can also be used as a catalyst for the production of plastics including polyurethanes and certain silicones, and for room temperature vulcanisation (RTV) silicone rubber systems.	REACH Candidate List: 0.1%				D
All	propionaldehyde, 2-(4-tert-butylbenzyl)- and its individual stereoisomers	Cleaning agents, cosmetics, in scented articles, polishes and wax blends.	REACH Candidate List: 0.1%				D
13840-56-7	Orthoboric acid, sodium salt	This substance is used in aqueous buffer solutions and in electroplating solutions. It may also be used in fluxes, as flame retardants in paper and wood and in lubricants.	REACH Candidate List: 0.1%				D
3296-90-0	Propane-1,3-diol, 2,2-bis(bromomethyl)- (BMP)	Manufacture of polymer resins and in one component foam (OCPF) application.	REACH Candidate List: 0.1%				D
36483-57-5	Propan-1-ol, 2,2-dimethyl-tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);	Polymer production manufacture of plastics products, including compounding and conversion and as an intermediate.	REACH Candidate List: 0.1%				D
1522-92-5	Propan-1-ol, 2,2-dimethyl-tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);	Polymer production manufacture of plastics products, including compounding and conversion and as an intermediate.	REACH Candidate List: 0.1%				D
96-13-9	Propan-1-ol, 2,3-dibromo- (2,3-DBPA)	A chemical intermediate used in the production of flame retardants, insecticides, and pharmaceuticals, and it is also used as a reactive flame retardant.	REACH Candidate List: 0.1%				D
111-30-8	Glutaral	This is used as a disinfectant (such as to sterilise surgical instruments), in medication (to treat warts), as a preservative and as a biochemical fixative.	REACH Candidate List: 0.1%				D
All	Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17	This flame retardant and plasticiser is mainly used in flexible PVC and in some rubbers. It is also used as an additive in metal cutting fluids, sealants, paints, adhesives, textiles and coatings.	REACH Candidate List: 0.1%				D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	This substance is used to manufacture lubricants and cleaners for fuel system in road vehicles and marine applications. Significant amounts of unreacted PDDP compounds may remain in these products	REACH Candidate List: 0.1%				D
123-91-1	Dioxane, 1,4-	Used mainly as a solvent in manufacturing processes and as a stabiliser to store trichloroethane.	REACH Candidate List: 0.1%				D
77-40-7	Bisphenol B, 4,4'-(1-methylpropylidene)bisphenol	Bisphenol B is similar to Bisphenol A. Bisphenols are used to make various plastics such as polycarbonates and epoxy resins	REACH Candidate List: 0.1%				D
68937-41-7	Phenol, isopropylated phosphate (3:1) (PIP (3:1))	PIP (3:1) is used as a plasticizer, a flame retardant, an anti-wear additive, or an anti-compressibility additive in hydraulic fluid, lubricating oils, lubricants and greases, various industrial coatings, adhesives, sealants, and plastic articles				TSCA section 6(h), 15 U.S.C 2605(h) 40 CFR Part 751, 86 FR 894, January 2021.	R
732-26-3	Tris(tert-butyl)phenol, 2,4,6-	2,4,6-TTBP has been used as a reactant, an intermediate, a product in organic chemical manufacturing, and as an antioxidant in plastic and resin manufacturing and as an ingredient in automobile fuel injector cleaners, as well as in lubricant additives and fuel additives (as an antioxidant) in gasoline and jet fuel .				TSCA section 6(h), 15 U.S.C 2605(h) 40 CFR 751, 86 FR 866, January 2021.	R
133-49-3	Pentachlorothiophenol	Chemical peptizers are used to reduce viscosity during the production of rubber materials				TSCA section 6(h), 15 U.S.C 2605(h) 40 CFR 751, 86 FR 911, January 2021.	R
1067-53-4	tris(2-methoxyethoxy)vinylsilane	Rubbers, plastics, sealants	REACH Candidate List: 0.1%				D
119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	Rubbers, lubricants, adhesives, inks, fuels	REACH Candidate List: 0.1%				D
2558811-94-8	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	Lubricants, greases	REACH Candidate List: 0.1%				D



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1782069-811	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Cosmetics	REACH Candidate List: 0.1%				D
95342-41-9	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Cosmetics	REACH Candidate List: 0.1%				D
852541-25-4	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Cosmetics	REACH Candidate List: 0.1%				D
61-47-9	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Cosmetics	REACH Candidate List: 0.1%				D
741687-98-9	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Cosmetics	REACH Candidate List: 0.1%				D
852541-30-1	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Cosmetics	REACH Candidate List: 0.1%				D
852541-21-0	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Cosmetics	REACH Candidate List: 0.1%				D
All	Linear and branched perfluorocarboxylic acids (C9-C14 PFCAs)	Unintended by-products during the manufacture of perfluorinated and polyfluorinated substances. May also be used as substitutes for PFOA.	REACH Annex XVII				R