

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

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				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
100-42-5	Styrene	Solvent, manufacture of plastic and rubber products				Danish Regulation 1084/2017	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.379 (80), 2023: 0.1%	Danish Regulation: 73/2016 CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
10099-74-8	Lead dinitrate	Used in manufacture of explosives, weapons and ammunitions , intermediate in preoduction of pigments and a laboratory agent.	REACH Candidate List: 0.1%, REACH Annex XVII				D R
10108-64-2	Cadmium chloride	Analytical chemistry, photography, dyeing and calico printing	REACH Candidate List: 0.1%			CEPA 1999	D R
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% (30ppm)				D 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%			CEPA 1999	D R
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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
101-68-8	Methylene diphenyl diisocyanate, 4,4'-(MDI)	PU foam.	REACH Annex XVII: 0.1%			Danfoss 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)				D 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)				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
10325-94-7	Cadmium nitrate	Used for the manufacture of glass, porcelain and ceramic products and in laboratory chemicals	REACH Candidate List 0.1%			CEPA 1999	D R
104-40-5	Nonylphenol, 4-	Surface active agents	REACH Annex XVII: 0.1%			CEPA 1999	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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D R
10606-46-9	Dicofol	Pesticide	(EU) 2019/1021		Stockholm Convention		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.25%		R
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				D 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			CEPA 1999	D R
107-15-3	Ethylenediamine (EDA)	Intermediate in chemical synthesis e.g. of 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
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	R
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, 1% in mixtures, 0.15% in articles (EU) No. 1257/2013		Hong Kong Convention MEPC.379 (80), 2023; 1%. Stockholm Convention - only C10-C13 fraction restricted	CEPA 1999	D R
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



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
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%			CEPA 1999	D R
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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
110-91-8	Morpholine	Biocide in lubricants				Danfoss 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.379 (80), 2023 0.005%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
11097-69-1	Arochlor 1254	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023 0.005%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
11103-86-9	Potassium hydroxyoctaoxodizincatedichromate	Mainly used in coatings in the aeronautic/ aerospace, steel and aluminum coil coating and vehicle coating sectors.	REACH Candidate List, REACH Annex XIV			Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D R
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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
111-42-2	diethanolamine	Corrosion protection, pH stabilizer				TRGS 611; 615, 0.2% Danfoss 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
111-77-3	Ethanol 2-(2-methoxyethoxy) (DEGME)	Solvent in paints and degreasing agents	REACH Annex XVII: 0.1%			CEPA 1999	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.379 (80), 2023: 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				D R
1120-71-4	Propanesultone, (1,3-)	Electrolyte fluid of lithium ion batteries	REACH Candidate List: 0.1%				D
112-34-5	Ethanol 2-(2-butoxyethoxy) (DEGBE)	Solvent in paints and degreasing agents	REACH Annex XVII: 3%				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1163-19-5	Decabromodiphenyl ether, (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.379 (80), 2023: 0.1%	TSCA section 6(h), 15 U.S.C 2605(h) 40 CFR 751, 86 FR 880, January 2021. CEPA 1999	DR
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 used	REACH Candidate List, REACH Annex XIV, REACH Annex XVII	RoHS: 0.1% (2019)		CEPA 1999	DR
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				DR



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
117964-21-3	Octabromodiphenyl ether, (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	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023: 0.1%	CEPA 1999	R
118-74-1	Hexachlorobenzene (HCB)	Pesticide			Stockholm Convention	CEPA 1999	R
119313-12-1	Morpholinobutyronenone (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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
12060-00-3	Lead titanium trioxide	Used in piezoelectric ceramics, pigments and paints	REACH Candidate List: 0.1%, REACH Annex XVII				D R
12065-90-6	Pentalead tetraoxide sulphate	Used in manufacture of explosives, weapons and ammunitions , intermediate in preoduction of pigments and a laboratory agent.	REACH Candidate List: 0.1%, REACH Annex XVII				D R
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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)				D 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				D 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 R
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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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 R
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

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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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	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.	(EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
12578-12-0	Dioxobis(stearato)triethyllead	Stabiliser used in production of pvc products	REACH Candidate List: 0.1%, REACH Annex XVII				D R
126-11-4	Trihydroxymethylnitromethane	Biocide in lubricants				Danfoss decision; 0.005% free formaldehyde	R

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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 R
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			Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
12672-29-6	Arochlor 1248	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023 0.005%		R
127-18-4	Tetrachloroethylene ("PER")	Solvent, degreasing agent	(EU) 2024/590			Danfoss decision. General ban since 1985. Except in thermo bulbs for fire fighting equipment. CEPA 1999	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 R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
127564-83-4	Dichlorotetrafluoro propane (HCFC-234)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
127564-92-5	Dichloropentafluoro propane (HCFC-225)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
12767-79-2	Arochlor	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
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			CEPA 1999	D 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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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
1306-23-6	Cadmium sulphide	Pigment for ceramics and glass and in photo electronic applications such as solar cells.	REACH Candidate List: 0.1%			CEPA 1999	D R
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	R
131-18-0	Dipentyl phthalate (DPP)	Plasticiser	REACH Candidate List: 0.1%, REACH Annex XIV, REACH Annex XVII				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	D 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	(EU) 2019/1021		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 R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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-sensitive	REACH Candidate List: 0.1% REACH Annex XVII				D R
1321-64-8	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.379 (80), 2023: 0.005% Stockholm Convention	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1321-65-9	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.379 (80), 2023: 0.005% Stockholm Convention	CEPA 1999	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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	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			CEPA 1999	D 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
1330-78-5	Tricresylphosphate (all isomers including ortho)	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				Danfoss 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
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.379 (80), 2023 MEPC.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	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.379 (80), 2023: 0.1%		D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1335-88-2	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.379 (80), 2023: 0.005% Stockholm Convention	CEPA 1999	R
1336-36-3	Polychlorinated biphenyls (PCB)	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023 0.005%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134190-48-0	Pentachlorofluoropropane (HCFC-231)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134190-51-5	Trichlorofluoropropane (HCFC-251)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134237-34-6	Trichlorofluoroethane (HCFC-131)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134237-37-9	Tetrachlorotrifluoro propane (HCFC-223)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
134237-38-0	Trichlorotetrafluoro propane (HCFC-224)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
134237-39-1	Tetrachlorodifluoro propane (HCFC-232)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134237-40-4	Trichlorotrifluoropropane (HCFC-233)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134237-43-7	Dichlorotrifluoropropane (HCFC-243)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
134237-45-9	Dichlorofluoropropane (HCFC-261)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
134237-50-6	Hexabromocyclodo decane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclodod ecane Beta-hexabromocyclodod ecane Gamma-hexabromocyclodod ecane	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			CEPA 1999	D R
134237-51-7	Hexabromocyclodo decane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclodod ecane Beta-hexabromocyclodod ecane Gamma-hexabromocyclodod ecane	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			CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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			CEPA 1999	D 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 R
134308-72-8	Chlorohexafluoropropane (HCFC-226)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	R
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			Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	DR

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danish Regulation: 73/2016	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D 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.379 (80), 2023: 0.1%	CEPA 1999	D 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.005%		R
136677-10-6	Polychlorinated dibenzofuranes	Pesticides, additives, Combustion pollutants			Stockholm Convention	CEPA 1999	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D R
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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
138495-42-8	Decafluoropentane (HFC-43-10mee)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.25%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	R
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.379 (80), 2023: 0.25%	CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.25%	CEPA 1999	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.379 (80), 2023: 0.1%		R
14797-65-0	Nitrite	Risk of carcinogenic nitrosamine formation when used as an inhibitor in cutting fluids				Danfoss decision. Applies only to use in cutting fluids (20 ppm)	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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.379 (80), 2023: 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 monooctyltin 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%, REACH Annex XIV				D R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1649-08-7	Dichlorodifluoroethane (HCFC-132b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
1691-99-2	n-Ethyl Perfluorooctane Sulfonamidoethanol		(EU) 2019/1021			CEPA 1999	R
1717-00-6	Dichlorofluoroethane (HCFC-141b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
1746-01-6	Tetrachlorodibenzo-p-dioxin, (2,3,7,8-)	Incineration and combustion pollutant			Stockholm Convention	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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	CEPA 1999	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.379 (80), 2023: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	CEPA 1999	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.379 (80), 2023: 0.1%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	CEPA 1999	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.				CEPA 1999	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.				CEPA 1999	R
1912-24-9	Atrazine	Pesticide	EU Reg. 540/2011				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%			CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.				CEPA 1999	R
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.				CEPA 1999	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			CEPA 1999	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.				CEPA 1999	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.379 (80), 2023: 0.25%	CEPA 1999	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.379 (80), 2023: 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.379 (80), 2023: 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			CEPA 1999	R
2058-94-8	Henicosafuoroundecanoic 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			CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
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			CEPA 1999	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	Hexabromodiphenyl ether, (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.379 (80), 2023: 0.1%	CEPA 1999	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.379 (80), 2023: 0.1%	CEPA 1999	R
20837-86-9	Lead cyanamidate	Pigment, lubricant additive	REACH Candidate List: 0.1%, REACH Annex XVII				DR

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
21041-95-2	Cadmium hydroxide	Used for the manufacture of electrical, electronic and optical equipment and in laboratory chemicals.	REACH Candidate List 0.1%			CEPA 1999	D R
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%			CEPA 1999	D R
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.379 (80), 2023: 0.005%		R
21436-97-5	Trimethylaniline, 2,4,5-, hydrochloride	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
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.379 (80), 2023: 0.25%	CEPA 1999	R
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			CEPA 1999	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 R
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.379 (80), 2023: 0.1%	Danish Regulation: 73/2016	R
2224-44-4	Morpholine, 4-(2-nitrobutyl)-	Biocide in lubricants				Danfoss decision; 0.005% free formaldehyde	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
2234-13-1	Polychlorinated Naphthalenes, Chloronaphthalene	Additive	(EU) No. 1257/2013		Hong Kong Convention MEPC.379 (80), 2023: 0.005% Stockholm Convention	CEPA 1999	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.				CEPA 1999	R
2252-78-0	Bromohexafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.				CEPA 1999	R
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.379 (80), 2023: 0.25%		R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
2354-06-5	Pentachlorotrifluoropropane (CFC-213)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
2385-85-5	Mirex	Pesticide, flame retardant			Stockholm Convention	CEPA 1999	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.379 (80), 2023: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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			CEPA 1999	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			Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D 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			CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 combination thereof	Surface active agents	REACH Annex XVII: 0.1%			CEPA 1999	R
25155-23-1	Trixylyl phosphate	Flame retardant	REACH Candidate List: 0.1%, REACH Annex XIV				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
25167-88-8	Dichlorofluoroethane (HCFC-141)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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				DR
2536-05-2	Methylenediphenyl diisocyanate (MDI), 2,2'-	PU foam.	REACH Annex XVII: 0.1%			Danfoss decision. Prohibited in foam packaging systems, use allowed in embedding of electronics and in adhesives	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
25497-29-4	Chlorodifluoroethane (HCFC-142)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention	EPA Ozone Layer protection Danish Regulation 1386/2015	R
2551-62-4	SF6 (Sulfurhexafluoride)		(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021 CEPA 1999	R
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-stereoisomers)]	Curing agent for epoxy resins, especially in the electric and electronics field	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
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	CEPA 1999	DR
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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
25915-78-0	Dichlorodifluoroethane (HCFC-132)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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		Stockholm Convention		DR
26172-54-3	Isothiazolin-3-one, 2-Methyl-4-, hydrochloride	Biocide, preservative, in lubricants and cutting fluids				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
26172-55-4	Isothiazolinone	Biocide, preservative, in lubricants and cutting fluids				Danfoss 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
2634-33-5	Benzisothiazol-3-one, 1,2-	Biocide, preservative, in lubricants and cutting fluids				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
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.379 (80), 2023: 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.379 (80), 2023: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
26447-40-5	Methylenediphenyl diisocyanate (MDI) including isomers	PU foam.	REACH Annex XVII: 0.1%			Danfoss 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				Danfoss 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				Danfoss 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
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.379 (80), 2023: 0.25%		R
36631-23-9	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.379 (80), 2023: 0.25%	CEPA 1999	R
2682-20-4	Isothiazolin-3-one, 2-Methyl-4-	Biocide, preservative, in lubricants and cutting fluids				Danfoss 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
27323-18-8	Kanechlor 500	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023 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.379 (80), 2023: 0.005%		R
2795-39-3	Perfluorooctane sulfonate		(EU) 2019/1021			CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
2837-89-0	Monochlorotetrafluoroethane (HCFC-124)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
29081-56-9	Perfluorooctane Sulfonate Ammonium Salt		(EU) 2019/1021			CEPA 1999	R
29255-31-0	Tetrachlorotetrafluoropropane (CFC214)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
29457-72-5	Perfluorooctane Sulfonate Lithium Salt		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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 inhibit	REACH Candidate List: 0.1%			CEPA 1999	D R
30283-91-1	Bromotrifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
306-83-2	Dichlorotrifluoroethane (HCFC-123)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
307-35-7	Perfluorooctane Sulfonyl Fluoride		(EU) 2019/1021			CEPA 1999	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.379 (80), 2023: 0.25%		R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.25%	CEPA 1999	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
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%			CEPA 1999	D R
311-89-7	Perfluorotributylamine (PFTBA)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
31392-96-8	Dibromodifluoroethane (Halon 2202)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
31506-32-8	n-Methyl Perfluorooctane Sulfonamide		(EU) 2019/1021			CEPA 1999	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.379 (80), 2023: 0.25%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
3182-26-1	Hexachlorodifluoro propane (CFC-212)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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	CEPA 1999	DR
319-84-6	Alpha hexachlorocyclohexane	Pesticide			Stockholm Convention		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
319-85-7	Beta hexachlorocyclohexane	Pesticide			Stockholm Convention		R
319-86-8	Delta-hexachlorocyclohexane		(EU) 2019/1021				R
32534-81-9	Pentabromodiphenylethers	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.379 (80), 2023: 0.1%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
32536-52-0	Octabromodiphenyl ethers	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.379 (80), 2023: 0.1%	CEPA 1999	R
32598-13-3	PCB77	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023: 0.005%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
32774-16-6	PCB169	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023: 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	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	Surface treatment. Cleaning agent	REACH Candidate List: 0.1% (EU) 2019/1021 (EU) 2021/115		Stockholm Convention	CEPA 1999	D 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.379 (80), 2023: 0.1%	Danish Regulation: 73/2016	R
337513-72-1	Octabromodiphenyl ether, (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	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023: 0.1%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
34256-82-1	Acetochlor	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2018				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
35065-27-1	PCB153	heat exchange fluids, additives	(EU) No. 1257/2013		Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023: 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
353-36-6	Fluoroethane (HFC-161)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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.	(EU) 2024/590		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	R
353-97-9	Tribromodifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
354-04-1	Dibromotrifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
354-11-0	Tetrachlorofluoroethane (HCFC-121a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
354-23-4	Dichlorotrifluoroethane (HCFC-123a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
354-25-6	Chlorotetrafluoroethane HCFC-124a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
354-33-6	Pentafluoroethane (HFC-125)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
354-56-3	Pentachlorofluoroethane (CFC-111)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
355-25-9	Decafluorobutane (PFC-3-1-10)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R
355-42-0	Tetradecafluorohexane (PFC-5-1-14)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
3563-45-9	Tetrachloro DDT	Pesticide	EU Reg. 540/2011 EC Reg. 1107/2010		Stockholm Convention	CEPA 1999	R
358-97-4	Dibromofluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
359-07-9	Bromodifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
359-28-4	Trichlorofluoroethane (HCFC-131)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
359-35-3	Fluoromethane (HFC-134)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R
362631-77-4	Tribromodifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 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	Hexabromodiphenyl ether	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.379 (80), 2023: 0.1%	CEPA 1999	R



# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.25%	CEPA 1999	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 R
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.				CEPA 1999	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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%			CEPA 1999	D R
376-06-7	Heptacosfluorotetradecanoic acid	Used as processing aids in the production of fluoropolymers and fluoroelastomers and in other surfactant uses / impurity	REACH Candidate List: 0.1%				D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 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 R
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 R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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
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.379 (80), 2023: 0.005%		R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	CEPA 1999	R
40321-76-4	Pentachlorodibenzo dioxin	Inceneration and combustion pollutant			Stockholm Convention	CEPA 1999	R
406-58-6	Pentafluorobutane (HFC-365mfc)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%		R
4149-60-4	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%			CEPA 1999	DR
4151-50-2	n-Ethyl Perfluorooctane Sulfonamide		(EU) 2019/1021			CEPA 1999	R
115-25-3	Octafluorocyclobutane (PFC-c-318)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021 CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
41834-16-6	Trichlorodifluoroethane (HCFC-122)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
420-46-2	Trifluoroethane (HFC-143a)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
420-89-3	Bromodifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
421-02-03	Monochlorodifluoropropane (HCFC-262)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
421-90-9	Tribromotrifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
421-94-3	Pentachlorofluoropropane (HCFC-231)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
422-01-5	Bromopentafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
422-49-1	Pentachlorodifluoro propane (HCFC-222)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
422-52-6	Tetrachlorotrifluoro propane (HCFC-223)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
422-54-8	Trichlorotetrafluoro propane (HCFC-224)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
422-56-0	Dichloropentafluoro propane (HCFC-225ca)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
422-78-6	Heptachlorofluoropropane (CFC-211)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
425-94-5	Dichlorotetrafluoro propane (HCFC-234)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
4299-07-4	Buty -n-l-1,2-benzisothiazolin-3-one	Biocide, preservative, in lubricants and cutting fluids				Danfoss 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
430-66-0	Triflouroethane (HFC-143)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R
431-06-1	Dichlorodifluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
431-21-0	Dibromotrifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
431-63-0	Hexafluoropropane (HFC-236ea)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R
431-78-7	Dibromopentafluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
431-89-0	Heptafluoropropane (HFC-227ea)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.25%		R
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.379 (80), 2023: 0.25%		R
437701-78-5	Nonabromodiphenyl ether, (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.379 (80), 2023: 0.1%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	CEPA 1999	R
446255-39-6	Octabromodiphenylether, (2,2',3,3',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.379 (80), 2023: 0.1%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
446255-50-1	Octabromodiphenyl ether, (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	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023: 0.1%	CEPA 1999	R
453-00-9	Dibromofluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
72101-30-5	Bromotrifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
460-25-3	Dibromodifluoropropane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
460-63-9	Trichlorodifluoropropane (HCFC-242)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
460-73-1	Pentafluoropropane (HFC-245fa)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
460-86-6	Dibromotetrafluoro propane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
460-89-9	Tetrachlorodifluoro propane (HCFC-232)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.379 (80), 2023: 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.379 (80), 2023: 0.25%	CEPA 1999	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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-stereoisomers)]	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	REACH Candidate List, REACH Annex XIV			Danfoss decision: Not permitted in	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 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			Danfoss decision: 0.005% free formaldehyde as biocide in lubricants. In general: 0.15% formaldehyde. CEPA 1999	R
50-29-3	DDT	Pesticide			Stockholm Convention	CEPA 1999	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				D 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
51200-87-4	Oxazolidine, (4,4'-Dimethyl)	Biocide in lubricants				Danfoss 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	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
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.379 (80), 2023: 0.005%		R
53-70-3	Dibenzo(a,h)anthracene (DBAhA)	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			CEPA 1999	R
540-97-6	Dodecamethylcyclotetrasiloxane (D6)	In silicone rubbers and polymers.	REACH Candidate List 0.1% ; REACH Annex XVII				D
541-02-6	Decamethylcyclotetrasiloxane (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				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
542-88-1	Bis (chloromethyl) ether	In chemical synthesis				CEPA 1999	R
5436-43-1	Tetrabromodiphenyl ether, (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.379 (80), 2023: 0.1%	CEPA 1999	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 R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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	Naphthylammonium acetate, 2-	Intermediate in synthesis of dyes	REACH Annex XVII				R
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			CEPA 1999	D 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				Danfoss 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
561-41-1	Trityl alcohol, (4,4'-bis(dimethylamino)-4''-(methylamino)-) [with $\geq 0.1\%$ 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%, REACH Annex XIV				D R
56-23-5	Carbontetrachlorid	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590, REACH Annex XVII; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	R
5625-90-1	Methylene-bis-morpholine/Bis-morpholino-methane	Biocide in lubricants				Danfoss 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
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.379 (80), 2023: 0.25%	CEPA 1999	D 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.379 (80), 2023: 0.25%		R
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			CEPA 1999	R
56773-42-3	Tetraethylammonium perfluorooctane sulfonate		(EU) 2019/1021			CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
569-61-9	Benzenamine, 4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene)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-stereoisomers)]</i>	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
57117-41-6	Pentachlorodibenzo furan, (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 R
57-74-9	Chlordan	Pesticide			Stockholm Convention		R
5873-54-1	Methylenediphenyl diisocyanate (MDI), 2,4'-	PU foam.	REACH Annex XVII: 0.1%			Danfoss decision. Prohibited in foam packaging systems, use allowed in embedding of electronics and in adhesives	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
58-89-9	Lindane	Pesticide			Stockholm Convention		R
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.379 (80), 2023: 0.005%		R
593-53-3	Fluoromethane (HFC-41)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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.	(EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.005%	CEPA 1999	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-), (Î²-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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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)				D R
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.379 (80), 2023: 0.1%	CEPA 1999	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				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	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	CEPA 1999	DR

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.005%		R
615-05-4	Methoxy-m-phenylenediamine, 4-	In dyes for textiles etc., packaging materials	REACH Annex XVII: 0,003% (30ppm)				R
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%			CEPA 1999	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 R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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				D R
624-72-6	Difluoroethane(HFC-152)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	CEPA 1999	R
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.379 (80), 2023: 0.1%	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
63938-10-3	Chlorotetrafluoroethane HCFC-124)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
639-58-7	Triphenyltin 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.379 (80), 2023: 0.25%		R
64359-81-5	Isothiazolone- 3(2H)-4,5-dichlor-2-octyl	Biocide, preservative, in lubricants and cutting fluids				Danfoss 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
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.379 (80), 2023: 0.25%	CEPA 1999	R
64-67-5	Diethyl sulphate	Used mainly as a reagent in chemical synthesis.	REACH Candidate List: 0.1%			CEPA 1999	D R
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 R
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.379 (80), 2023: 0.25%	CEPA 1999	D 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				D R
661-97-2	Dichlorohexafluoro propane (CFC-216)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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	Heptachlorodibenzo furan, (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) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.005%		R
67797-09-5	Octabromodiphenyl ether, (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	RoHS: 0.1%	Stockholm Convention; Hong Kong Convention MEPC.379 (80), 2023: 0.1%	CEPA 1999	R
678-26-2	Dodecafluoropentane (PFC-4-1-12)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
679-85-6	Monochlorotetrafluoropropane (HCFC-244)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
679-86-7	Pentafluoropropane (HFC-245ca)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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
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				D R
68515-50-4	Benzenedicarboxylic acid (1,2-), dihexyl ester, branched and linear	UVCB substance	REACH Candidate List: 0.1%, REACH Annex XIV				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
68631-49-2	Hexabromodiphenyl ether, (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.379 (80), 2023: 0.1%	CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
68784-75-8	Silicic acid ( $\text{H}_2\text{Si}_2\text{O}_5$ ), 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 R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.25%	CEPA 1999	R
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.	(EU) 2019/1021		Stockholm Convention - only C10-C13 fraction restricted	CEPA 1999	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.379 (80), 2023: 0.1%	CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
69011-06-9	Dioxotrilead,[Phthalato(2-)]	Stabiliser used in production of pvc products	REACH Candidate List: 0.1%, REACH Annex XVII				D R
690-39-1	Hexafluoropropane (HFC-236fa)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R
70225-14-8	Diethanolammonium perfluorooctane sulfonate		(EU) 2019/1021			CEPA 1999	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.379 (80), 2023: 0.005% Stockholm Convention	CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 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.	(EU) 2019/1021		Stockholm Convention - only C10-C13 fraction restricted	CEPA 1999	R
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7125-84-0	Trichlorotrifluoropropane (HCFC-233)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
71-43-2	Benzene	Solvent, degreasing agent	REACH Annex XVII: 0.0005%			CEPA 1999	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



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
71-55-6	Methylchloroform	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	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
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				D R
72-20-8	Endrin	Pesticide			Stockholm Convention		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
72629-94-8	Pentacosafuorotridecanoic 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.379 (80), 2023: 0.1%	Danish Regulation 856/2009 CEPA 1999	D R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7439-97-6	Mercury	In fluorescent lamps, electric switches, luminescent materials, manufacture of industrial chemicals, in electrical and electronical 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.379 (80), 2023: 0.1%, Minamata Convention 0%	Danish Regulation 73/2016 CEPA 1999	R
7440-24-6	Strontium	Radioactive substance, many uses	(EU) No. 1257/2013	EURATOM	Hong Kong Convention MEPC.379 (80), 2023		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	REACHAnnex 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.379 (80), 2023: 0.01%		R
7440-46-2	Cesium	Radioactive substance, many uses	(EU) No. 1257/2013	EURATOM	Hong Kong Convention MEPC.379 (80), 2023		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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danish Regulation 856/2009	R
74-83-9	Methylbromide	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	R
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.379 (80), 2023: 0.1%	Danish Regulation: 73/2016 CEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
74-97-5	Bromochloromethane (Halon-1011)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	R
75-09-2	Dichloromethane	Solvent, paint stripper, degreaser, propellant, blowing agent	(EU) 2024/590; REACH Annex XVII, 0.1%			Danfoss decision. Prohibited as a solvent. CEPA 1999	R
75-10-5	Difluoromethane (HFC-32)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
75-37-6	Difluorethane (HFC-152a)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention	EPA Ozone Layer protection Danish Regulation 1386/2015	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 Danish Regulation 1386/2015	D R
75-46-7	Carbon trifluoride (HFC-23)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R
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%			CEPA 1999	D R
75635-23-3	Trifluoralin	Pesticide	EU ban since 2009				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
75-63-8	Bromotrifluoromethane (Halon-1301)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
75-71-8	Dichlorodifluoromethane (CFC-12)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
75-73-0	Tetrafluoromethane (PFC-14)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
75-88-7	Monochlorotrifluoroethane (HCFC-133a)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
76-16-4	Hexafluoroethane (PFC-116)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
76-19-7	Octafluoropropane (PFC-218)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R
762-49-2	Bromofluoroethane	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
76253-60-6	Monomethyl-tetrachlorodiphenyl methane	Replacement for PCB	REACH Candidate List: 0.1%, REACH Annex XVII				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
7632-04-04	Sodium peroxometaborate	A source of active oxygen in many detergents	REACH Candidate List: 0.1%, REACH Annex XIV				D R
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.379 (80), 2023: 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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	CEPA 1999	D 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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015 CEPA 1999	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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015	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.379 (80), 2023: 0.1%	Danish Regulation 1792/2015	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.379 (80), 2023: 0.25%		R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D 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				D R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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			Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D 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%			CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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			CEPA 1999	D R
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%			CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D 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.379 (80), 2023: 0.1%	Danish Regulation: 73/2016	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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			Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D 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			Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	R D
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%			Cepa 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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, REACH Annex XIV				D R
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%			CEPA 1999	D R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
78-30-8	Tri(ortho)cresylphosphate	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				Danfoss decision (Only in metal working/cutting fluids). Ortho-TCP: 0.5%. The sum of Meta- and Para-TCP: 5%.	R
78-32-0	Tricresylphosphate (all isomers except ortho)	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				Danfoss 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.379 (80), 2023	Danish Reg. 1386/2015	R
79-01-6	Trichloroethylene ("TRI" or "TCE")	Trichlorethylene 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			Danfoss decision. General ban since 1985. CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D 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			CEPA 1999	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 R
8012-00-8	Pyrochlore, antimony lead yellow	Pigment in paints and enamels	REACH Candidate List: 0.1%, REACH Annex XVII				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
80-46-6	Phenol, p-(1,1-dimethylpropyl)-	Manufacture of chemicals and plastic products	REACH Candidate List 0.1%				D
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				D 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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R
811-97-2	Tetrafluoroethane (HFC-134a)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
812-04-4	Dichlorotrifluoroethane (HCFC-123b)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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)				D 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
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)			D 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)			D R
84-75-3	Dihexyl phthalate	This phthalate is used as a plasticizer for PVC	REACH Candidate List: 0.1%, REACH Annex XVII				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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				D 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 combination thereof	Surface active agents	REACH Candidate List: 0.1% REACH Annex XVII: 0.1%			CEPA 1999	D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
85409-17-2	Stannane, tributyl-,mono(naphthenoyl oxy) 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.379 (80), 2023: 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, 1% in mixtures, 0.15% in articles; (EU) No. 1257/2013		Hong Kong Convention MEPC.379 (80), 2023; 1%. Stockholm Convention	CEPA 1999	D R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.	(EU) 2019/1021		Stockholm Convention - only C10-C13 fraction restricted	CEPA 1999	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.	(EU) 2019/1021		Stockholm Convention - only C10-C13 fraction restricted	CEPA 1999	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)			DR

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 R
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	R
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)				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 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.	(EU) 2024/590		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015	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				D R
90640-81-6	Anthracene oil, anthracene paste	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
90640-82-7	Anthracene oil, anthracene-low	synthesis, production of dyes	REACH Candidate List: 0.1%				D
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%			Cepa 1999	D R
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 R
91-22-5	Quinoline	Manufacture of dyes	REACH Annex XVII			CEPA 1999	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 Annex XVII: 0,003% (30ppm)			CEPA 1999	R
91995-15-2	Anthracene oil, anthracene paste, anthracene fraction	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
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.379 (80), 2023: 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)				D R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 0.005%		R
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)				D 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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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)				D 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 longer	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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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)				D 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 bromobenzylbromo toluene	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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Cresylphosphates	Plasticizer additives in nitrocellulose, PVC, flame retardant, additive in oils, acrylate lacquers, varnishes.				Danfoss 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.				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Formaldehyde releasing substances (e.g. below)	Biocide in lubricants	Reach Annex XVII			Danfoss decision: 0.005% free formaldehyde as biocide in lubricants. In general: 0.15% formaldehyde	R
All	Isothiazolones	Biocide in lubricants				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Mercaptobenzothiazoles	Biocide in lubricants				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Mineral oil with PAH (e.g. below)	Base oils				Danfoss decision; 0.005% (50 ppm) Benz(a)pyren, 3% DMSO extract for the base oil	R
All	Morpholine releasing substances	Biocide in lubricants				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R
All	Tall oil distillates which contains adipinic acid	Extreme pressure additive				Danfoss decision. Only prohibited for use in cutting/cooling (metal working) fluids	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

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.				Danfoss 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 R
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			CEPA 1999	R

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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, which include any of the individual isomers or a combination thereof	Surface active agents	REACH Candidate List: 0.1%			CEPA 1999	D R
All	All Amines (secondary) which facilitate the formation of nitrosamines (e.g. below)	Corrosion protection, pH stabilizer				TRGS 611; 615, 0.2%	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
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			CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Chlorofluorocarbons (CFC)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	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.379 (80), 2023: 0.1%	Danfoss decision: Not permitted in passivation processes. Passivation is a process where metal surfaces are getting hexavalent chromium conversion coating, leaving residues of hexavalent chromium on the processed surface. CEPA 1999	DR



# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Dechlorane Plus. 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropenta cyclo[12.2.1.16,9.02,13.05,10]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%		Stockholm Convention		DR
All	HFC (Hydrofluorocarbons)	In heat pumps, refrigeration and air-conditioning and sprays	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021 CEPA 1999	R
All	Hydrobromofluorocarbons (HBrFC)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	R

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Hydrochlorofluorocarbons (HCFC)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590; (EU) No. 1257/2013		Montreal Protocol, The Hong Kong Convention MEPC.379 (80), 2023	EPA Ozone Layer protection Danish Regulation 1386/2015 CEPA 1999	R
All	Manmade mineral fibers with proven carcinogenic effects	Applies to work processes where there is a risk of exposure to respirable fibers				Danish Regulation 344/1988	D
All	Mercury compounds	In lamps, electric switches, luminescent materials	REACH Annex XVII		Minamata Convention	CEPA 1999	R
All	Nonylphenol ethoxylates	Surface active agents	REACH Annex XVII			CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 or a combination thereof	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			CEPA 1999	D R
All	Nonylphenol, 4-, branched and linear, ethoxylated	Cleaning agents	REACH Candidate List: 0.1%			CEPA 1999	D R
All	Nonylphenols	Surface active agents	REACH Annex XVII: 0.1%			CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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.379 (80), 2023: 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		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% (EU) 2019/1021		Stockholm Convention		D R
All	PFC (Perfluorocarbons)	For PFC: also in fire extinguisher and equipment.	(EU) 2024/573		Kyoto Protocol	Danish Regulation 1013/2021 CEPA 1999	R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

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				D R
All	Polychlorinated dibenzo-p-dioxins	Inceneration and combustion pollutant			Stockholm Convention	CEPA 1999	R
All	Radioactive substances	Many uses	(EU) No. 1257/2013	EURATOM	Hong Kong Convention MEPC.379 (80), 2023 no threshold value		R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%, REACH Annex XIV				D R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	Used as a lubricant additive in lubricants and greases.	REACH Candidate List 0.1%, REACH Annex XIV, REACH Annex XVII			Danfoss decision (only in metal working/cutting fluids).	D R
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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Tetrafluoro (2,3,3,3-)-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 $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	Primarily used as an antioxidant to stabilise polymers	REACH Candidate List: 0.1%			CEPA 1999	D R



# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
All	Zirconia 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 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%			CEPA 1999	D R
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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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	Diocetyl tin 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. 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
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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
3296-90-0	Propane1,3-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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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%			CEPA 1999	D R
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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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 in various industrial coatings, adhesives, sealants, and plastic articles. Other common use explicitly exempted from restrictions applies to anti-compressibility additive in hydraulic fluid, lubricating oils, lubricants and greases.				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.	REACH Candidate List: 0.1%			TSCA section 6(h), 15 U.S.C 2605(h) 40 CFR 751, 86 FR 866, January 2021. CEPA 1999	D 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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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
1782069-81-1	(±)-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

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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



# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
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			cEPA 1999	R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
924-42-5	N-(hydroxymethyl)acrylamide	Monomer in thermoplastic polymer production.	REACH Candidate List: 0.1%. REACH Annex XVII				D
All	Mineral oil aromatic hydrocarbons (MOAH) consisting of 1 to 7 aromatic rings	In packaging and printed materials distributed to the public	French law 2020-105 of 10. February 2020				R
All	Mineral oil saturated hydrocarbons (MOSH) consisting of 16 to 35 carbon atoms	In packaging and printed materials distributed to the public	French law 2020-105 of 10. February 2020				R
37853-59-1	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	Brominated flame retardant	REACH Candidate List: 0.1%				D
79-94-7	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBP-A)	Flame retardant in polymer resins and products such as epoxy coated circuit boards, printed circuit boards, paper and textiles.	REACH Candidate List: 0.1%				D
80-09-1	4,4'-sulphonyldiphenol	Potential substitute to BPA in the manufacture of pulp, paper products, textile, leather or fur and chemicals.	REACH Candidate List: 0.1%				D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
13701-59-2	Barium diboron tetraoxide	Paints and coatings. UV stabiliser in PVC materials (>0.1%). Also found in resistive ink used in trimmer potentiometers.	REACH Candidate List: 0.1%				D
All	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	Flame retardant and plasticizer in flexible PVC and in wire and cable insulation, film and sheeting, carpet backing, coated fabrics, wall coverings and adhesives.	REACH Candidate List: 0.1%				D
4247-02-3	Isobutyl 4-hydroxybenzoate	Anti-microbial agent. May be used in the manufacturing of substances and in coating products, fillers, putties, plasters, modelling clay and inks and toners.	REACH Candidate List: 0.1%				D
108-78-1	Melamine	In polymers and resins, coating products, adhesives and sealants, leather treatment products, lab chemicals, in additive flame retardants.	REACH Candidate List: 0.1%				D
All	Perfluoroheptanoic acid and its salts (PFHpA)	PFHpA is a breakdown product of stain- and grease-proof coatings on 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
All	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	Used in articles, by professional workers (widespread uses), in formulation or repacking, at industrial sites and in manufacturing.	REACH Candidate List: 0.1%				D
28990-85-4	Perchlorophenyl 5-oxo-L-prolinate		(EU) 2019/1021				R
2917-32-0	Zinc bis(pentachlorophenolate)		(EU) 2019/1021				R
3772-94-9	Pentachlorophenyl laurate		(EU) 2019/1021				R
All	Pentachlorophenol salts		(EU) 2019/1021				R
23234-97-1	Pentachlorophenyl N-[[4-methoxyphenyl)methoxy]carbonyl]-L-serinate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
13673-51-3	N2-benzyl pentachlorophenyl N2-carboxy-L-(2-aminoglutaramate)		(EU) 2019/1021				R
13673-53-5	Perchlorophenyl N-(benzyloxycarbonyl)-L-isoleucinate		(EU) 2019/1021				R
13673-54-6	Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate		(EU) 2019/1021				R
All	Pentachlorophenol esters		(EU) 2019/1021				R
7778-73-6	Potassium pentachlorophenolate		(EU) 2019/1021				R
75-01-4	Vinyl chloride	For production of PVC	REACH Annex XVII			CEPA 1999	R
17741-60-5	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-henicosafuorododecyl acrylate		(EU) 2019/1021				R
27905-45-9	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl acrylate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
30046-31-2	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodotetradecane		(EU) 2019/1021				R
30389-25-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecene		(EU) 2019/1021				R
33496-48-9	Perfluorooctanoic anhydride		(EU) 2019/1021				R
39186-68-0	2-carboxyethylbis(2-hydroxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propylammonium hydroxide		(EU) 2019/1021				R
39239-77-5	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecanol		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
41358-63-8	N-[3-[bis(2-hydroxyethyl)amino]propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide		(EU) 2019/1021				R
52956-82-8	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl acrylate		(EU) 2019/1021				R
57678-05-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl dihydrogen phosphate		(EU) 2019/1021				R
60699-51-6	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecanol		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
63295-27-2	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafuoro-2-hydroxy-12-(trifluoromethyl)tridecyl dihydrogen phosphate		(EU) 2019/1021				R
63295-28-3	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl dihydrogen phosphate		(EU) 2019/1021				R
63295-29-4	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-2-hydroxy-16-(trifluoromethyl)heptadecyl dihydrogen phosphate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
65510-55-6	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-16-iodohexadecane		(EU) 2019/1021				R
65510-56-7	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodoundecane		(EU) 2019/1021				R
307-43-7	1-bromohenicosafluorodecane		(EU) 2019/1021				R
307-60-8	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,11,11,12,12-pentacosafuoro-12-iodododecane		(EU) 2019/1021				R
307-63-1	Nonacosafuoro-1-iodotetradecane		(EU) 2019/1021				R
335-66-0	Pentadecafluorooctyl fluoride		(EU) 2019/1021				R
335-93-3	Silver(1+)perfluorooctanoate		(EU) 2019/1021				R
335-95-5	Sodium pentadecafluorooctanoate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
376-27-2	Methyl perfluorooctanoate		(EU) 2019/1021				R
423-62-1	Henicosafluoro-10-iododecane		(EU) 2019/1021				R
507-63-1	Heptadecafluoro-1-iodooctane		(EU) 2019/1021				R
558-97-4	Nonadecafluoro-9-iodononane		(EU) 2019/1021				R
677-93-0	Icosafluoro-10-iodo-2-(trifluoromethyl)decane		(EU) 2019/1021				R
678-39-7	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecan-1-ol		(EU) 2019/1021				R
678-41-1	Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate		(EU) 2019/1021				R
865-86-1	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-henicosafluorododecanol		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1895-26-7	Bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl] hydrogen phosphate		(EU) 2019/1021				R
1996-88-9	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl methacrylate		(EU) 2019/1021				R
2043-53-0	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iododecane		(EU) 2019/1021				R
2043-54-1	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-henicosafuoro-12-iodododecane		(EU) 2019/1021				R
2144-54-9	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-henicosafuorododecyl methacrylate		(EU) 2019/1021				R
2395-00-8	Potassium perfluorooctanoate		(EU) 2019/1021				R
3108-24-5	Ethyl perfluorooctanoate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
3248-61-1	1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)decane		(EU) 2019/1021				R
3248-63-3	Octacosafuoro-14-iodo-2-(trifluoromethyl)tridecane		(EU) 2019/1021				R
3825-26-1	Ammonium pentadecafluorooctanoate		(EU) 2019/1021				R
4151-50-2	N-ethylheptadecafluorooctanesulphonamide		(EU) 2019/1021				R
4980-53-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluorohexadecyl methacrylate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
6014-75-1	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl methacrylate		(EU) 2019/1021				R
24216-05-5	3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]benzenesulphonyl chloride		(EU) 2019/1021				R
16083-78-6	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-2-hydroxy-16-(trifluoromethyl)heptadecyl acrylate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
16083-87-7	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl acrylate		(EU) 2019/1021				R
71356-38-2	1-(carboxylatomethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)piperazinium		(EU) 2019/1021				R
72968-38-8	Carboxylic acids, C7-13, perfluoro, ammonium salts		(EU) 2019/1021				R
74256-14-7	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-icosafuoro-11-(trifluoromethyl)decyl methacrylate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
74256-15-8	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl methacrylate		(EU) 2019/1021				R
84029-60-7	Heptadecafluoro-1-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]nonene		(EU) 2019/1021				R
78560-44-8	Perfluorooctylethyltrichlorosilane;Perfluorooctylethyltrichlorosilane		(EU) 2019/1021				R
83048-65-1	Perfluorooctylethyltrimethoxysilane;Perfluorooctylethyltrimethoxysilane		(EU) 2019/1021				R
85631-54-5	2-Propenoic acid, $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl esters		(EU) 2019/1021				R
85681-64-7	2-Propenoic acid, perfluoro-C8-16-alkyl esters		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
85938-56-3	N-(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide		(EU) 2019/1021				R
90480-55-0	Octanoic acid, pentadecafluoro-, branched		(EU) 2019/1021				R
90480-56-1	Octanoic acid, pentadecafluoro-, branched, ammonium salt		(EU) 2019/1021				R
90622-71-2	Alkyl iodides, C6-18, perfluoro		(EU) 2019/1021				R
90622-99-4	Amides, C7-19, $\alpha$ - $\omega$ -perfluoro-N,N-bis(hydroxyethyl)		(EU) 2019/1021				R
91032-01-8	Fatty acids, C7-19, perfluoro		(EU) 2019/1021				R
91615-22-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl acrylate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
93062-53-4	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts		(EU) 2019/1021				R
93776-00-2	1,1'-[oxybis[(1-methylethylene)oxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-pentacosafuoropen tade can-2-ol]		(EU) 2019/1021				R
93776-12-6	(2-carboxylatoethyl)(dimethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-pentacosafuoro-2-hydroxypentadecyl)amino]propyl]amm onium		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
93776-13-7	(2-carboxylatoethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl)amino]propyl]dimethyl ammonium		(EU) 2019/1021				R
93776-15-9	(2-carboxylatoethyl)(dimethyl)[[[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]propyl]ammonium		(EU) 2019/1021				R
93857-44-4	Diammonium 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl phosphate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
94158-63-1	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafluoro-17-(trifluoromethyl)octadecyl acrylate		(EU) 2019/1021				R
94158-64-2	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl methacrylate		(EU) 2019/1021				R
94158-65-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafluoro-17-(trifluoromethyl)octadecyl methacrylate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
94158-70-0	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl dihydrogen phosphate		(EU) 2019/1021				R
94159-79-2	1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropen tadecan-2-ol		(EU) 2019/1021				R
94159-80-5	1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuorotride can-2-ol		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
94159-82-7	1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-14-(trifluoromethyl)pentadecan-2-ol		(EU) 2019/1021				R
94159-83-8	1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafluoro-12-(trifluoromethyl)tridecan-1-ol		(EU) 2019/1021				R
94200-45-0	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl phosphate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
94200-46-1	Diammonium 4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,1 2,13,13,13- henicosafuoro-2- hydroxytridecyl phosphate		(EU) 2019/1021				R
94200-47-2	Diammonium 4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,1 2,13,13,14,14,15,15 ,15-pentacosafuoro- 2- hydroxypentadecyl phosphate		(EU) 2019/1021				R
94200-48-3	Diammonium 4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,1 2,13,13,14,14,15,15 ,16,16,17,17,17- nonacosafuoro-2- hydroxyheptadecyl phosphate		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
94200-50-7	Diammonium 4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,1 3,13,13-icosafuoro- 2-hydroxy-12- (trifluoromethyl)trid ecyl phosphate		(EU) 2019/1021				R
94200-51-8	Diammonium 4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,1 2,13,13,14,15,15,15- tetracosafuoro-2- hydroxy-14- (trifluoromethyl)pe ntadecyl phosphate		(EU) 2019/1021				R
94200-52-9	Diammonium 4,4,5,5,6,6,7,7,8,8,9 ,9,10,10,11,11,12,1 2,13,13,14,14,15,15 ,16,17,17,17- octacosafuoro-2- hydroxy-16- (trifluoromethyl)he ptadecyl phosphate		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
95370-51-7	Carbamic acid, [2-(sulfothio)ethyl]-, C-(γ-ω-perfluoro-C6-9-alkyl) esters, monosodium salts		(EU) 2019/1021				R
101947-16-4	Triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)silane		(EU) 2019/1021				R
74612-30-9	Perfluorooctylethyl dimethylchlorosilane; Perfluorooctylethyl dimethylchlorosilane		(EU) 2019/1021				R
3102-79-2	Perfluorooctylethyl dichloromethyl silane; Perfluorooctylethyl dichloromethyl silane		(EU) 2019/1021				R
70969-47-0	Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide		(EU) 2019/1021				R

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
74049-08-4	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,10- heptadecafluorodec yl ester, homopolymer;2- Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,10- heptadecafluorodec yl ester, homopolymer;2- Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,10- heptadecafluorodec yl ester, homopolymer;2- Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,10- heptadecafluorodec yl ester,		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
65104-45-2	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
53515-73-4	2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, polymer with 2-propenoic acid; 2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, polymer with 2-propenoic acid		(EU) 2019/1021				R
1882109-81-	Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-; Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-79-	Hexanoic acid, 2,2,3,3,4,5,5,6,6,6- decafluoro-4- (1,1,2,2,2- pentafluoroethyl)- ;Hexanoic acid, 2,2,3,3,4,5,5,6,6,6- decafluoro-4- (1,1,2,2,2- pentafluoroethyl)-		(EU) 2019/1021				R
1882109-78-	Hexanoic acid, 2,2,3,4,4,5,5,6,6,6- decafluoro-3- (1,1,2,2,2- pentafluoroethyl)- ;Hexanoic acid, 2,2,3,4,4,5,5,6,6,6- decafluoro-3- (1,1,2,2,2- pentafluoroethyl)-		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-77-	Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-;Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-		(EU) 2019/1021				R
1882109-76-	Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-;Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-75-	Pentanoic acid, 2,2,3,5,5,5- hexafluoro-3,4,4- tris(trifluoromethyl)- ;Pentanoic acid, 2,2,3,5,5,5- hexafluoro-3,4,4- tris(trifluoromethyl)-		(EU) 2019/1021				R
1882109-74-	Pentanoic acid, 2,2,4,5,5,5- hexafluoro-3,3,4- tris(trifluoromethyl)- ;Pentanoic acid, 2,2,4,5,5,5- hexafluoro-3,3,4- tris(trifluoromethyl)-		(EU) 2019/1021				R
1882109-73-	Pentanoic acid, 2,3,3,5,5,5- hexafluoro-2,4,4- tris(trifluoromethyl)- ;Pentanoic acid, 2,3,3,5,5,5- hexafluoro-2,4,4- tris(trifluoromethyl)-		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-72-	Pentanoic acid, 2,3,4,5,5,5- hexafluoro-2,3,4- tris(trifluoromethyl)- ;Pentanoic acid, 2,3,4,5,5,5- hexafluoro-2,3,4- tris(trifluoromethyl)-		(EU) 2019/1021				R
1882109-71-	Pentanoic acid, 2,4,4,5,5,5- hexafluoro-2,3,3- tris(trifluoromethyl)- ;Pentanoic acid, 2,4,4,5,5,5- hexafluoro-2,3,3- tris(trifluoromethyl)-		(EU) 2019/1021				R
1882109-70-	Pentanoic acid, 3,3,4,5,5,5- hexafluoro-2,2,4- tris(trifluoromethyl)- ;Pentanoic acid, 3,3,4,5,5,5- hexafluoro-2,2,4- tris(trifluoromethyl)-		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-68-	Pentanoic acid, 2,2,3,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-4- (trifluoromethyl)- ;Pentanoic acid, 2,2,3,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-4- (trifluoromethyl)-		(EU) 2019/1021				R
1882109-67-	Pentanoic acid, 2,2,4,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-3- (trifluoromethyl)- ;Pentanoic acid, 2,2,4,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-3- (trifluoromethyl)-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-66-	Pentanoic acid, 2,3,4,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-2- (trifluoromethyl)- ;Pentanoic acid, 2,3,4,4,5,5,5- heptafluoro-3- (1,1,2,2,2- pentafluoroethyl)-2- (trifluoromethyl)-		(EU) 2019/1021				R
1882109-65-	Pentanoic acid, 2,3,3,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-4- (trifluoromethyl)- ;Pentanoic acid, 2,3,3,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-4- (trifluoromethyl)-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-64-	Pentanoic acid, 2,3,4,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-3- (trifluoromethyl)- ;Pentanoic acid, 2,3,4,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-3- (trifluoromethyl)-		(EU) 2019/1021				R
1882109-63-	Pentanoic acid, 3,3,4,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-2- (trifluoromethyl)- ;Pentanoic acid, 3,3,4,4,5,5,5- heptafluoro-2- (1,1,2,2,2- pentafluoroethyl)-2- (trifluoromethyl)-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-69-	Pentanoic acid, 3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-;Pentanoic acid, 3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-		(EU) 2019/1021				R
1882109-62-	Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-;Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1882109-61-	Butanoic acid, 2,3,4,4,4- pentafluoro-2- [1,2,2,2-tetrafluoro- 1- (trifluoromethyl)eth yl]-3- (trifluoromethyl)- ;Butanoic acid, 2,3,4,4,4- pentafluoro-2- [1,2,2,2-tetrafluoro- 1- (trifluoromethyl)eth yl]-3- (trifluoromethyl)-		(EU) 2019/1021				R
1882109-60-	Butanoic acid, 2,3,3,4,4,4- hexafluoro-2-[2,2,2- trifluoro-1,1- bis(trifluoromethyl) ethyl]-;Butanoic acid, 2,3,3,4,4,4- hexafluoro-2-[2,2,2- trifluoro-1,1- bis(trifluoromethyl) ethyl]-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
13058-06-5	Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1); Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1)		(EU) 2019/1021				R
1195164-59-4	Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1); Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
19742-57-5	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1); Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)		(EU) 2019/1021				R
61436-04-2	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x); Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
29457-73-6	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1); Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)		(EU) 2019/1021				R
18017-22-6	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1); Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
15739-82-9	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x); Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)		(EU) 2019/1021				R
15715-47-6	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1); Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)		(EU) 2019/1021				R
40143-79-1	Bis(perfluorooctyl)phosphinic acid; Bis(perfluorooctyl)phosphinic acid		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
610800-34-5	Perfluorohexylperfluorooctyl phosphinate; Perfluorohexylperfluorooctyl phosphinate		(EU) 2019/1021				R
307-50-6	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafluoro-11-iodo-		(EU) 2019/1021				R
335-79-5	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacontafluoro-15-iodo-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
376-04-5	Tridecane, 1,1,1,2,2,3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,1 0,11,11,12,12,13,13- heptacosafuoro-13- iodo-;Tridecane, 1,1,1,2,2,3,3,4,4,5,5, 6,6,7,7,8,8,9,9,10,1 0,11,11,12,12,13,13- heptacosafuoro-13- iodo-		(EU) 2019/1021				R
68390-33-0	Alkyl iodides, C10- 12, γ-ω- perfluoro;Alkyl iodides, C10-12, γ-ω- perfluoro		(EU) 2019/1021				R
70887-94-4	2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12, 12,12-eicosafuoro- ;2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8 ,9,9,10,10,11,11,12, 12,12-eicosafuoro-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
53826-13-4	Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,11,11,1 2,12,12- heneicosafuoro- ;Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,11,11,1 2,12,12- heneicosafuoro-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
115592-83-1	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
116984-14-6	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1, 2-ethanediyl), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluorohexadecyl 2-propenoate, octadecyl 2-propenoate,		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
125328-29-2	2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethylmethacrylate, Methyl methacrylate and perfluoro-C8-14-alkyl acrylate		(EU) 2019/1021				R
1882109-59-1	Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-; Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1812247-20-	Hexanoic acid, 2,2,4,4,5,5,6,6,6- nonafluoro-3,3- bis(trifluoromethyl)- ;Hexanoic acid, 2,2,4,4,5,5,6,6,6- nonafluoro-3,3- bis(trifluoromethyl)-		(EU) 2019/1021				R
1812247-18-	Hexanoic acid, 2,3,4,4,5,5,6,6,6- nonafluoro-2,3- bis(trifluoromethyl)- ;Hexanoic acid, 2,3,4,4,5,5,6,6,6- nonafluoro-2,3- bis(trifluoromethyl)-		(EU) 2019/1021				R
1144512-36-	Hexanoic acid, 2,2,3,3,4,5,6,6,6- nonafluoro-4,5- bis(trifluoromethyl)- ;Hexanoic acid, 2,2,3,3,4,5,6,6,6- nonafluoro-4,5- bis(trifluoromethyl)-		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1144512-34-	Hexanoic acid, 2,2,3,3,4,4,6,6,6- nonafluoro-5,5- bis(trifluoromethyl)- ;Hexanoic acid, 2,2,3,3,4,4,6,6,6- nonafluoro-5,5- bis(trifluoromethyl)-		(EU) 2019/1021				R
909009-42-3	Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7 ,7-dodecafluoro-5- (trifluoromethyl)- ;Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7 ,7-dodecafluoro-5- (trifluoromethyl)-		(EU) 2019/1021				R
207678-51-1	Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7 ,7-dodecafluoro-2- (trifluoromethyl)- ;Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7 ,7-dodecafluoro-2- (trifluoromethyl)-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
35605-76-6	Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2- (1,1,2,2,2- pentafluoroethyl)- ;Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2- (1,1,2,2,2- pentafluoroethyl)-		(EU) 2019/1021				R
98241-25-9	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7 ,7,8,8,8- pentadecafluorooct anoate (1:1);Ethanaminium , N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7 ,7,8,8,8- pentadecafluorooct anoate (1:1)		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
27854-31-5	Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluoro- ;Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluoro-		(EU) 2019/1021				R
70887-84-2	2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- hexadecafluoro-;2- Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8, 9,9,10,10,10- hexadecafluoro-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
57678-03-2	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluoro-, 1- (dihydrogen phosphate);1- Decanol, 3,3,4,4,5,5,6,6,7,7,8, 8,9,9,10,10,10- heptadecafluoro-, 1- (dihydrogen phosphate)		(EU) 2019/1021				R
1882109-80-	Hexanoic acid, 2,3,3,4,4,5,6,6,6- nonafluoro-2,5- bis(trifluoromethyl)- ;Hexanoic acid, 2,3,3,4,4,5,6,6,6- nonafluoro-2,5- bis(trifluoromethyl)-		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
53517-98-9	1-Propanaminium,N,N,N-trimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]-, chloride (1:1);1-Propanaminium,N,N,N-trimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]-, chloride (1:1)		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
89685-61-0	1-Propanesulfonic acid,3-[ethyl (2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-,sodium salt (1:1);1-Propanesulfonic acid,3-[ethyl (2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-sodium salt (1:1)		(EU) 2019/1021				R
325459-92-5	Phosphine, tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)phenyl]-;Phosphine, tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)phenyl]-		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
326475-46-1	Palladium, dichlorobis[tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)phenyl]phosphine-κP]-; Palladium, dichlorobis[tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)phenyl]phosphine-κP]-		(EU) 2019/1021				R
1882109-58-	Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-; Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1812247-19-	Hexanoic acid, 2,3,3,4,5,5,6,6,6- nonafluoro-2,4- bis(trifluoromethyl)- ;Hexanoic acid, 2,3,3,4,5,5,6,6,6- nonafluoro-2,4- bis(trifluoromethyl)-		(EU) 2019/1021				R
1812247-17-	Hexanoic acid, 3,3,4,4,5,5,6,6,6- nonafluoro-2,2- bis(trifluoromethyl)- ;Hexanoic acid, 3,3,4,4,5,5,6,6,6- nonafluoro-2,2- bis(trifluoromethyl)-		(EU) 2019/1021				R
1192593-79-	Hexanoic acid, 2,2,3,3,5,5,6,6,6- nonafluoro-4,4- bis(trifluoromethyl)- ;Hexanoic acid, 2,2,3,3,5,5,6,6,6- nonafluoro-4,4- bis(trifluoromethyl)-		(EU) 2019/1021				R



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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
1144512-35-	Hexanoic acid, 2,2,3,4,4,5,6,6,6- nonafluoro-3,5- bis(trifluoromethyl)- ;Hexanoic acid, 2,2,3,4,4,5,6,6,6- nonafluoro-3,5- bis(trifluoromethyl)-		(EU) 2019/1021				R
1144512-18-	Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7 ,7-dodecafluoro-4- (trifluoromethyl)- ;Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7 ,7-dodecafluoro-4- (trifluoromethyl)-		(EU) 2019/1021				R
705240-04-6	Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7 ,7-dodecafluoro-3- (trifluoromethyl)- ;Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7 ,7-dodecafluoro-3- (trifluoromethyl)-		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
123116-17-6	Isooctanoic acid, pentadecafluoro- ;Isooctanoic acid, pentadecafluoro-		(EU) 2019/1021				R
15166-06-0	Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7 ,7-dodecafluoro-6- (trifluoromethyl)- ;Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7 ,7-dodecafluoro-6- (trifluoromethyl)-		(EU) 2019/1021				R
99955-83-6	Octadecanoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,10- heptadecafluorodec yl ester;Octadecanoic acid, 3,3,4,4,5,5,6,6,7,7,8 ,8,9,9,10,10,10- heptadecafluorodec yl ester		(EU) 2019/1021				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
302911-86-0	Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]-2-oxoethyl]-3-hydroxy-, 1,5-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) ester;Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]-2-oxoethyl]-3-hydroxy-, 1,5-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) ester		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
148240-85-1	1,3-Propanediol, 2,2-bis[[(γ-w-perfluoro-C4-10-alkyl)thio)methyl] derivatives, phosphates, ammonium salts		(EU) 2019/1021				R
148240-87-3	1,3-Propanediol, 2,2-bis[[(γ-w-perfluoro-C6-12-alkyl)thio)methyl] derivatives, phosphates, ammonium salts		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
148240-89-5	1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts; 1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts		(EU) 2019/1021				R
183146-60-3	Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-[(γ-ω-perfluoro-C8-20-alkyl)thio]propyl] ethers		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
71608-61-2	Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio]derivs., compds. with diethanolamine		(EU) 2019/1021				R
129783-45-5	2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ-ω-perfluoro-C8-14-alkyl acrylate; 2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ-ω-perfluoro-C8-14-alkyl acrylate		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
144031-01-6	2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate; 2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and $\gamma$ - $\omega$ -perfluoro-C8-14-alkyl acrylate		(EU) 2019/1021				R
68141-02-6	Chromium(3+) perfluorooctanoate		(EU) 2019/1021				R
68187-42-8	Propanamide, 3-[( $\gamma$ - $\omega$ -perfluoro-C4-10-alkyl)thio] derivs.		(EU) 2019/1021				R
68188-12-5	Alkyl iodides, C4-20, $\gamma$ - $\omega$ -perfluoro		(EU) 2019/1021				R
68333-92-6	Fatty acids, C7-13, perfluoro		(EU) 2019/1021				R

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
68412-69-1	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.		(EU) 2019/1021				R
115-32-2	Dicofol		(EU) 2019/1021				R
1163-19-5	Bis(pentabromophenyl) ether		(EU) 2019/1021				R
All	Per- and polyfluoroalkyl substances (PFAS), intentionally added	<p>PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents.</p> <p>Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.</p>				Danfoss decision (any intentionally added PFAS is a declarable substance)	D



## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
9002-84-0	Polytetrafluoroethylene (PTFE)	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
27029-05-6	Poly(propylene-co-tetrafluoroethylene)	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
25067-11-2	Perfluoroethylene propylene copolymer	<p>PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents.</p> <p>Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.</p>				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
9011-17-0	Poly(vinylidene fluoride-co-hexafluoropropylene)	<p>PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents.</p> <p>Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.</p>				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
25038-71-5	Poly(ethylene-co-tetrafluoroethylene) (ETFE)	<p>PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents.</p> <p>Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.</p>				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
68258-85-5	1-Hexene, 3,3,4,4,5,5,6,6,6- nonafluoro-, polymer with ethene and 1,1,2,2- tetrafluoroethene	<p>PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents.</p> <p>Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.</p>				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
24937-79-9	Poly(vinylidene fluoride) (PVDF)	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
24981-14-4	Polyvinyl fluoride (PVF)	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D



## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
60164-51-4	Perfluoroalkylether (PFPE)	<p>PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents.</p> <p>Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.</p>				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
219484-64-7	Methyl perfluorobutyl ether	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
163702-08-7	Methyl perfluorobutyl ether	<p>PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents.</p> <p>Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.</p>				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
163702-07-6	Methyl perfluorobutyl ether (Nonafluorobutyl methyl ether)	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
26655-00-5	Polytetrafluoro-ethylene-co-perfluoro(alkyl vinyl ether)	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

## Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
31784-04-0	Polytetrafluoro-ethylene-co-perfluoro(alkyl vinyl ether)	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
26425-79-6	Tetrafluoro-ethen polymer with trifluoro(trifluoromethoxy)ethene	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D

# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
25190-89-0	1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene and 1,1,2,2-tetrafluoroethene	PFAS are widely used as they have unique desirable properties. For instance, they are stable under intense heat. Many of them are also surfactants and are used, for example, as water and grease repellents. Some of the major industry sectors using PFAS include aerospace and defence, automotive, aviation, food contact materials, textiles, leather and apparel, construction and household products, electronics, firefighting, food processing, and medical articles.				Danfoss decision (any intentionally added PFAS is a declarable substance)	D
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Inks and toners, coating products, photo-chemicals, polymers, adhesives and sealants and fillers, putties, plasters, modelling clay.	REACH Candidate List: 0.1%				D
80-07-9	Bis(4-chlorophenyl) sulphone	Manufacture of chemicals, plastic products and rubber products.	REACH Candidate List: 0.1%				D
3147-75-9	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol ("UV-329")	Air care products, coating products, adhesives and sealants, lubricants and greases, polishes and waxes and washing and cleaning products.	REACH Candidate List: 0.1%				D



# Danfoss Negative list - November 2024 Danfoss\_Negative\_List\_V.1.24

CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
119344-86-4	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	Inks and toners, coating products.	REACH Candidate List: 0.1%				D
3896-11-5	Bumetrizole ("UV-326")	Coating products, adhesives and sealants and washing and cleaning products.	REACH Candidate List: 0.1%				D
All	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Adhesives and sealants, coating products, fillers, putties, plasters, modelling clay, inks and toners and polymers.	REACH Candidate List: 0.1%				D
72-43-5	Methoxychlor	Pesticide			Stockholm Convention		R
75-61-6	Dibromodifluoromethane (halon-1202)	In cleaning agents, refrigerants, propellants in aerosol spray, blowing agents for making foam and in air-condition system.	(EU) 2024/590		Montreal Protocol		R
1514-82-5	2-bromo-3,3,3-trifluoroprop-1-en (2-BTP)		(EU) 2024/590				R

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CAS Number	Substance Identification	Occurrence, Common use	EU Regulation	EU Directives	Convention Protocols	Other Comments	Status
80-43-3	Bis( $\alpha,\alpha$ -dimethylbenzyl) peroxide	May be used in polymers (e.g. EPS) as a co-synergist for flame retardant grades	REACH Candidate List: 0.1%				D
115-86-6	Triphenyl phosphate (TPP)	Flame retardant and plasticizer in polymer formulations, adhesives and sealants	REACH Candidate List: 0.1%				D