

Proprietary Information of:  bel POWER SOLUTIONS & PROTECTION <small>a bel group</small>	Title: MANAGEMENT STANDARD FOR BANNED & CONTROLLED SUBSTANCES	Document No. UAP.01226	Rev. AC
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AA	M.Supakova	Initial release	E. Vergara	2017-04-20	C77008
AB	M.Supakova	Add limit for Halogen free product in table 1	E. Vergara	2019-10-31	C96739
AC	M.Supakova	Add TSCA, POPs requirements to table 1, correct MCV Threshold according to customer specification, add point 6.5 regarding custom and industry specific requirements	E. Vergara	2021-08-27	CO111522

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1 Purpose

This specification defines the environmental material content requirements for material delivered to Bel Power Solutions.

2 Scope

The requirements of this specification apply to all product designed, manufactured, marketed, and sold under the Bel Power Solutions identification. This includes any devices, modules, assemblies, or finished goods manufactured/assembled on-site, at subcontractors, or by vendors. By association, this then applies to all components and materials contained in these products.

3 Reference

N/A

4 Definition

MCV - Maximum Concentration Value

CAS - Chemical Abstracts Service

GADSL - Global Automotive Declarable Substance

RISL - Railway Industry Substance List

5 Roles and Responsibility

6 Procedure

6.1 Substances with Restricted Use

The following paragraph identify the restrictions for use of certain materials, in general as well as for specifically defined uses. Chemicals and substances shall not be used in materials, parts or products supplied to Bel Power Solutions above the Maximum Concentration Value (MCV) indicated. The MCV shall be of the homogenous material, unless otherwise specified. Refer to paragraph 4 for a detailed list of materials by chemical/industrial name and CAS number when applicable.

Table 1 Restricted substances

Substances	Substance identifier	Scope	MCV Threshold	Reference
Cadmium and its compounds	See Table 4.1 for detail CAS no.	All application	100 PPM	2011/65/EU (EU/RoHS Directive and its amendments); ANNEX XVII of REACH Regulation (EC) No 1907/2006; China Management Measures on EIP Pollution Control; California Electronic Waste Recycling Act SB 20, amended by SB 50 and AB 575;

Substances	Substance identifier	Scope	MCV Threshold	Reference
				Revised law for Promotion of Effective Utilization of Resources(J-Moss)
		Batteries	20 PPM by weight of battery	EU Directive 2006/66/EC; Taiwan Battery Regulation
		Non- lead acid batteries, including packs and coin cell	1000 PPM	India E-waste rules 2011
		Packaging	100 PPM total for Cr6+. Pb, Cd, and Hg	EU Packaging directive 94/62/EC
Hexavalent chromium and its compounds	See Table 4.2 for detail CAS no.	Metallic applications (such as corrosion preventative coatings and conversion coatings)	0 PPM	EU RoHS directive 2011/65/EU
		Non-metallic applications (such as paints, pigments, and plastics)	1000 PPM	EU RoHS directive 2011/65/EU
		Packaging	100 PPM total for Cr6+. Pb, Cd, and Hg	EU packaging directive 94/62/EC
		Non- lead acid batteries, including packs and coin cell	1000 PPM	India E-waste rules 2011
Lead and its compound	See Table 4.3 for detail CAS no.	Accessory bags, carrying cases, sleeves, backpacks	200 PPM	California Safe Drinking Water and Toxic Enforcement Act 1986 (pproposition 65)
		All application	1000 PPM	2011/65/EU (EU/RoHS Directive and its amendments); China Management Measures on EIP Pollution Control;

Substances	Substance identifier	Scope	MCV Threshold	Reference
				California Electronic Waste Recycling Act SB 20, amended by SB 50 and AB 575; Revised law for Promotion of Effective Utilization of Resources(J-Moss); ANNEX XVII of REACH Regulation (EC) No 1907/2006
		Graphic inks	600 PPM nonvolatile content	HP Standard 011-1 General Specification for the Environment – Substances and Materials Requirements, Rev. B1
		paint	90 PPM	HR 4040 Consumer product Safety Act
		Polyvinyl chloride (PVC) coating for external cables, wires, and cords, including connectors and plugs	300 PPM	California Safe Drinking Water and Toxic Enforcement Act 1986 (Proposition 65)
		Batteries, alkaline zinc manganese dioxide	40 PPM by weight of battery	China Standard GB24427-2009
		Batteries, nonrechargeable and built-in (such as soldered or glued)	1000 PPM by weight of battery	HP Standard 011-1 General Specification for the Environment – Substances and Materials Requirements, Rev. B1
		Batteries, including coin cell	1000 PPM	India E-waste rules 2011
		Packaging	100 PPM total for Cr6+, Pb, Cd, and Hg	EU packaging directive 94/62/EC

Substances	Substance identifier	Scope	MCV Threshold	Reference
Mercury and its compound	See Table 4.4 for detail CAS no.	All application	1000 PPM	2011/65/EU (EU/RoHS Directive and its amendments); ANNEX XVII of REACH Regulation (EC) No 1907/2006; China Management Measures on EIP Pollution Control; California Electronic Waste Recycling Act SB 20, amended by SB 50 and AB 575; Revised law for Promotion of Effective Utilization of Resources (JMoss); Canadian Products Containing Mercury Regulations (SOR/2014-254)
		Batteries, including coin cell	1 PPM by weight of battery, not intentionally added	HP Standard 011-1 General Specification for the Environment – Substances and Materials Requirements, Rev. B1
		Non-lead acid batteries, including packs	1000 PPM	India E-waste rules 2011
		Packaging	100 PPM total for Cr6+, Pb, Cd, and Hg	EU packaging directive 94/62/EC
Polybrominated Biphenyls (PBB)	See Table 4.5 for detail CAS no.	All application	1000 PPM	EU RoHS directive 2011/65/EU
		Non-lead acid batteries, including packs and coin cell	1000 PPM	India E-waste rules 2011
		textile	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Polybrominated Diphenyl Ethers (PBDE)	See Table 4.6 for detail CAS no.	All application	1000 PPM	EU RoHS directive 2011/65/EU
		Non-lead acid batteries, including packs and coin cell	1000 PPM	India E-waste rules 2011

Substances	Substance identifier	Scope	MCV Threshold	Reference
Bis (2-ethylhexyl) phthalate – (DEHP)	117-81-7	All application	0 PPM	California Safe Drinking Water and Toxic Enforcement Act 1986 (proposition 65) EU RoHS directive 2011/65/EU Regulation (EC) 1907/2006, Annex XIV (EU REACH)
Dibutyl phthalate – (DBP)	84-74-2	All application	0 PPM	California Safe Drinking Water and Toxic Enforcement Act 1986 (proposition 65) EU RoHS directive 2011/65/EU Regulation (EC) 1907/2006, Annex XIV (EU REACH)
Butylbenzyl phthalate – (BBP)	85-68-7	All application	0 PPM	California Safe Drinking Water and Toxic Enforcement Act 1986 (proposition 65) EU RoHS directive 2011/65/EU Regulation (EC) 1907/2006, Annex XIV (EU REACH)
Diisobutyl phthalate – (DIBP)	84-69-5	All application	0 PPM	California Safe Drinking Water and Toxic Enforcement Act 1986 (proposition 65) EU RoHS directive 2011/65/EU Regulation (EC) 1907/2006, Annex XIV (EU REACH)
Ammonium dichromate	7789-09-5	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Chromium (VI) oxide	1333-82-0	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Lead (II) chromate	7758-97-6	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Lead chromate molybdate sulphate red	12656-85-8	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Lead sulfochromate yellow	1344-37-2	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Potassium chromate	7789-00-6	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)

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Substances	Substance identifier	Scope	MCV Threshold	Reference
Potassium dichromate	7778-50-9	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Sodium chromate	7775-11-3	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Strontium chromate	7789-06-2	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Dichromium tris(chromate)	24613-89-6	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Pentazinc chromate octahydroxide	49663-84-5	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
4,4'-Methylenedianiline	101-77-9	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
4,4'-Methylenebis(2-chloroaniline (MOCA))	101-14-4	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	25637-99-4	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH) Regulation (EU) No 2019/1021
1,2,5,6,9,10-hexabromocyclodecane (HBCDD) and all major diastereoisomers identified	3194-55-6	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH) Regulation (EU) No 2019/1021
alpha-hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	134237-50-6	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH) Regulation (EU) No 2019/1021
beta-hexabromocyclododecane (HBCDD) and all major	134237-51-7	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH) Regulation (EU) No 2019/1021

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Substances	Substance identifier	Scope	MCV Threshold	Reference
diastereoisomers identified				
gamma-hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	134237-52-8	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH) Regulation (EU) No 2019/1021
Tris(2-chloroethyl) phosphate	115-96-8	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Diarsenic pentoxide	1303-28-2	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Arsenic acid	7778-39-4	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Trichloroethylene (TCE)	79-01-6	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
1,2-dichloroethane (EDC)	107-06-2	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
2,4-dinitrotoluene (2,4-DNT)	121-14-2	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Dichromic acid	13530-68-2	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Chromic acid	7738-94-5	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Bis(2-methoxyethyl) ether	111-96-6	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Diarsenic trioxide	1327-53-3	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Sodium dichromate	10588-01-9, 7789-12-0	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Aliphatic Chlorinated Hydrocarbons (CHCs)	See Table 4.31 for detail CAS no.	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH) Custom requirements Regulation (EU) No 2019/1021
Nonylphenol ethoxylates	9016-45-9	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH),

Substances	Substance identifier	Scope	MCV Threshold	Reference
				Bel Power Solutions Requirement
Arsenic and compounds	See Table 4.7 for detail CAS no.	All application	1000 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
		Computer display glass	10 PPM as trace contaminants or background levels, not intentionally added	Bel Power Solutions Requirement
Asbestos, Asbestos compounds	See Table 4.8 for detail CAS no.	All application	0 PPM	ANNEX XVII of REACH Regulation (EC) No 1907/2006. United States: Toxic Substances Control Act (TSCA); Switzerland Ordinance on Reduction of Risks from Chemical Products (ORRChim)
Azo colorants	See Table 4.9 for detail CAS no.	Textiles or leather articles where the substance may come in prolonged direct contact with exposed skin (such as carrying cases and protective covers)	30 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Benzidine-Based Dyes	See Table 4.10 for detail CAS no.	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH), U.S. TSCA 40 CFR 721.1660
Halogenated aromatic substances	See Table 4.11 for detail CAS no.	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH), Bel Power Solutions Requirement
Nickel/Nickel compounds	See Table 4.12 for detail CAS no.	All, where prolonged skin contact is expected	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH), Bel Power Solutions Requirement

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Substances	Substance identifier	Scope	MCV Threshold	Reference
Ozone Depleting Substances Group I – Group VIII	See Table 4.13 for detail CAS no.	All application/manufacturing process	0 PPM	Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and others (Japanese law), Montreal Protocol, 1990 revision of Article 611 of the Clean Air Act (US law); Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer
Pentachlorophenol (PCP) and its salts and compounds	See Table 4.14 for detail CAS no.	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH) Regulation (EU) 2019/1021
Bis(pentabromophenyl) ether Polycyclic Aromatic Hydrocarbons	1163-19-5 See Table 4.15 for detail CAS no.	All application Rubber or plastic material on the external or regularly user accessed surfaces of a product	0 PPM 1PPM per PAH	(EC) 1907/2006, Annex XVII (EU REACH) Toxic Substances Control Act (TSCA) Regulation (EU) 2019/1021 (EC) 1907/2006, Annex XVII (EU REACH)
Polychlorinated Biphenyls (PCBs) and specific substitutes	See Table 4.16 for detail CAS no.	All application	0 PPM	The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Class 1 chemical substances: Japanese law - PCBs only), ANNEX XVII of REACH Regulation (EC) No 1907/2006; US Toxic Substance Control Act (TSCA) Regulation (EU) No 2019/1021

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Substances	Substance identifier	Scope	MCV Threshold	Reference
Volatile esters of bromoacetic acids	See Table 4.17 for detail CAS no.	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Dimethyl fumarate	624-49-7	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
4-Nitrobiphenyl	92-93-3	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Anthracene oil	90640-80-5	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Arsenic (exemption for GaAs)	7440-38-2	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Dibutyltin hydrogen borate (DBB)	75113-37-0	All application	100 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Methyl bromoacetate (as total Br)	96-32-2	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
o-Nitrobenzaldehyde (2-nitrobenzaldehyde)	552-89-6	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Nonylphenol	25154-52-3	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Trichlorobenzene	120-82-1	All application	1 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Hexachloroethane	67-72-1	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Toluene	108-88-3	All application	1000 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Benzidine	92-87-5	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
4-Aminobiphenyl	92-67-1	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Amosite	12172-73-5	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Crocidolite	12001-28-4	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
β-Naphthylamine	91-59-8	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Tris (2,3 dibromopropyl) phosphate	126-72-7	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Tris-(aziridiny) - phosphineoxide	545-55-1	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Bisphenol A	80-05-7	Thermal paper	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Anthophyllite asbestos, Actinolite asbestos, Tremolite asbestos	77536-67-5	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)

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Substances	Substance identifier	Scope	MCV Threshold	Reference
Benzene	71-43-2	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Anthophyllite asbestos, Actinolite asbestos, Tremolite asbestos	77536-67-5	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Neutral anhydrous carbonate PbCO ₃	598-63-0	paint	300 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Lead-bis(carbonate)-dihydroxide 2PbCO ₃ -Pb(OH) ₂	1319-46-6	paint	300 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Lead sulphate PbSO ₄	7446-14-2	paint	300 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Lead sulphate PbXSO ₄	15739-80-7	paint	300 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Cyclohexane	110-82-7	adhesive	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Benzenamine, N- phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)	68921-45-9	All application	0 PPM	Canadian Environmental Protection Act, 1999: Prohibition of Certain Toxic Substances Regulations, 2012
Beryllium and its compounds	See Table 4.18 for detail CAS no.	All application	1000 PPM	Bel Power Solutions Requirement
Dibutyltin compounds (DBT)	See Table 4.19 for detail CAS no.	All application	0.1% by weight (1000 PPM) of tin in a material	(EC) 1907/2006, Annex XVII (EU REACH)
Tri-substituted organostannic compounds	See Table 4.20 for detail CAS no.	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Perfluorooctane sulfonate (PFOS)	See Table 4.21 for detail CAS no.	All application	Not used, 1000 PPM if incidentally present (as impurities)	(EC) 850/2004(POPs regulation); Canadian Environmental Protection Act SOR/SOR/2008-178; Japan Law concerning the evaluation of chemical substances

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Substances	Substance identifier	Scope	MCV Threshold	Reference
Perfluorooctanic acid (PFOA) and individual salts and esters	See Table 4.22 for detail CAS no.	All application	0 PPM	Norwegian products regulation Section 2-32 Regulation (EU) No 2019/1021
Phenol, 2- (2H – benzotriazol-2-yl) – 4,6-bis (1,1-dimethylethyl)	3846-71-7	All application	0 PPM	Japan Chemical Substance Control Law (CSCL, "Kashinho"), Law No. 117 of 1973; EU Regulation (EC) 1907/2006, Annex XVII (EU REACH)
Polychlorinated Naphthalenes (PCNs)	See Table 4.23 for detail CAS no.	All application	0 PPM	The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Class 1 chemical substances: Japanese law), and Regulation of the European Parliament and of the Council on persistent organic pollutants (EU No 519/2012) Regulation (EU) No 2019/1021
Polyvinyl chloride (PVC)	9002-86-2	Plastic parts visible to the customer in normal product operation	0 PPM	Bel Power Solutions Requirement
Radioactive Substances	See Table 4.24 for detail CAS no.	All application	0 PPM	U.S. Nuclear Regulatory Commission Title 10 CFR Part 20 (Appendix C); Laws for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors, 1986 (Japanese law); Japan Law Concerning Prevention from Radiation Hazards; EU-D 96/29/Euratom
Red phosphorus	7723-14-0	All application	0 PPM	Bel Power Solutions

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Substances	Substance identifier	Scope	MCV Threshold	Reference
	FR52 (ISO 1043-4)			Requirement
Short Chain Chlorinated Paraffins (C10-13, Cl >50%)	See Table 4.25 for detail CAS no.	All application	1000 PPM	Candidate list for European REACH Regulation No. 1907/2006/EC; Norway Product Regulations FOR-2004-06-01-922; Swiss Ordinance on Reduction of Risk from Chemical Products
2,4,6 tri-tert-butylphenol	732-26-3	All application	0 PPM	United States: Toxic Substances Control Act (TSCA)
Diocyl tin compounds (DOT)	See Table 4.26 for detail CAS no.	Textile articles intended for skin contact and wall coverings	1000 PPM by weight of tin	(EC) 1907/2006, Annex XVII (EU REACH)
Fluorinated Greenhouse Gases (PFC, SF6, HFC)	See Table 4.27 for detail CAS no.	All application	0 PPM	EU Reg. No. 842/2006
Formaldehyde	50-00-0	Composite wood (plywood, particle board, MDF) products or components	1 PPM	Sections 93120-93120.12, title 17, California Code of Regulations
		Textiles	0.0075% by weight (75 PPM) of textile product	Lithuanian Hygiene Norm HN 96:2000 (Hygiene standards and regulations); Austria - BGB I 1990/194: Formaldehydverordnung, §2, 12/2/1990
		Packaging	1000 PPM	Bel Power Solutions Requirement
Pentabromodiphenyl ether ('Penta')	32534-81-9 189084-66-0 182346-21-0	All applications	0 PPM	Japan Chemical Substance Control Law (CSCL, "Kashinho"), Law No. 117 of 1973 Regulation (EU) No 2019/1021
Polychlorinated Terphenyls (all isomers and congeners)	See Table 4.43 for detail CAS no.	All application	0 PPM	ANNEX XVII of REACH Regulation (EC) No 1907/2006

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Substances	Substance identifier	Scope	MCV Threshold	Reference
Tetrabromodiphenyl ether	40088-47-9	adhesive	0 PPM	Japan Chemical Substance Control Law (CSCL, Regulation (EU) No 2019/1021 "Kashinho"), Law No. 117 of 1973
Trichloroethylene (TCE)	79-01-6	Cleaning agents and adhesives	1 PPM	Japan Chemical Substance Control Law (CSCL, "Kashinho"), Law No. 117 of 1973
UGILEC121	81161-70-8	All application	0 PPM	Bel Power Solutions Requirement
Halogenated Dioxins and Furans	See Table 4.28 for detail CAS no.	All application	0 PPM	Bel Power Solutions Requirement
Halons	See Table 4.29 for detail CAS no.	All application	10 PPM	Bel Power Solutions Requirement
Hexachlorocyclohexanes, including lindane,	see table 4.42 for detail CAS no.	All application	0 PPM	Regulation (EU) No 2019/1021
Carbon tetrachloride	56-23-5	All application/manufacturing proces	0 PPM	Bel Power Solutions Requirement
Perchlorobenzene (hexachlorobenzene)	118-74-1	All application	0 PPM	Regulation (EU) No 2019/1021
Pentachlorobenzene	608-93-5	All application	0 PPM	Bel Power Solutions Requirement Regulation (EU) No 2019/1021
Sodium dichromate dihydrate	10588-01-9	All application	1000 PPM	Bel Power Solutions Requirement
Perchlorates	See Table 4.30 for detail CAS no.	All application	0 PPM	California Assembly Bill No. 826 - Perchlorate Contamination Prevention Act; implemented July 1, 2006
Mirex (dodecachloropentacyclodecane)	2385-85-5	All application	0 PPM	Regulation (EU) No 2019/1021

Substances	Substance identifier	Scope	MCV Threshold	Reference
Chlorine(Cl)	7782-50-5	All products define as halogen free - prohibited All application reportable	900 PPM	Joint JEDEC/ECA JS-709A Standard Defining "Low Halogen" Electronics Industry Standards IEC 61249-2-21 and IPC-4101
Bromine (Any Bromine and Brominated Compounds)	7726-95-6	All products define as halogen free - prohibited All application reportable	900 PPM	Joint JEDEC/ECA JS-709A Standard Defining "Low Halogen" Electronics Industry Standards IEC 61249-2-21 and IPC-4101
Brominated flame retardants (other than PBBs or PBDEs)	See Table 4.37 for detail CAS no.	All products define as halogen free - prohibited All application reportable	900 PPM	Joint JEDEC/ECA JS-709A Standard Defining "Low Halogen" Electronics Industry Standards IEC 61249-2-21 and IPC-4101
Chlorinated flame retardants	See Table 4.38 for detail CAS no.	All products define as halogen free - prohibited All application reportable	900 PPM	Joint JEDEC/ECA JS-709A Standard Defining "Low Halogen" Electronics Industry Standards IEC 61249-2-21 and IPC-4101
Polyvinyl chloride (PVC)	9002-86-2	All products define as halogen free - prohibited All application reportable	0 PPM	Joint JEDEC/ECA JS-709A Standard Defining "Low Halogen" Electronics Industry Standards IEC 61249-2-21 and IPC-4101
Total Br+Cl	-	All products define as halogen free - prohibited All application reportable	1500 PPM	Joint JEDEC/ECA JS-709A Standard Defining "Low Halogen" Electronics Industry Standards IEC 61249-2-21 and IPC-4101

Substances	Substance identifier	Scope	MCV Threshold	Reference
Sulfur	7704-34-9	Rubber material in the interior of system enclosure	1000 PPM	Bel Power Solutions Requirement
Triclosan	3380-34-5	All applications	10 PPM	Bel Power Solutions Requirement
4-[4,4'-bis(dimethylamino)-benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] Dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	All applications	1000 PPM	Bel Power Solutions Requirement
Volatile Organic Compounds (VOCs)	See Table 4.41	All applications	1000 PPM	CAN Toxic Substances List - Schedule 1 from 2011-06-01 (65?)
		Protective coatings, Printing inks ,Adhesives , Cleaning agents that are manufactured in or imported into China or applied to packaging in China.	refer to GB 30981-2020 GB 38507-2020 GB 33372-2020 GB 38508-2020	GB 30981-2020 GB 38507-2020 GB 33372-2020 GB 38508-2020
Hexachlorobutadiene	87-68-3	All application	0 PPM	United States: Toxic Substances Control Act (TSCA) Regulation (EU) No 2019/1021
PCTP, pentachlorothiophenol	133-49-3	All application	0 PPM	United States: Toxic Substances Control Act (TSCA)
PIP (3:1), phenol, isopropylated phosphate (3:1)	68937-41-7	All application	0 PPM	United States: Toxic Substances Control Act (TSCA)
Endosulfan	115-29-7 959-98-8 33213-65-9	All application	0 PPM	Regulation (EU) No 2019/1021
Chloroalkanes C10-13	85535-84-8	All application	0 PPM	Regulation (EU) No 2019/1021

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Substances	Substance identifier	Scope	MCV Threshold	Reference
Aldrin	309-00-2	All application	0 PPM	Regulation (EU) No 2019/1021
Dieldrin	60-57-1	All application	0 PPM	Regulation (EU) No 2019/1021
Endrin	72-20-8	All application	0 PPM	Regulation (EU) No 2019/1021
DDT Chlorophenothane	50-29-3	All application	0 PPM	Regulation (EU) No 2019/1021
Chlordanes	57-74-9	All application	0 PPM	Regulation (EU) No 2019/1021
Toxaphene	8001-35-2	All application	0 PPM	Regulation (EU) No 2019/1021
Kelthane	115-32-2	All application	0 PPM	Regulation (EU) No 2019/1021
Heptachlor	76-44-8	All application	0 PPM	Regulation (EU) No 2019/1021
Clordecone	143-50-0	All application	0 PPM	Regulation (EU) No 2019/1021
Hexabromobiphenyl	36355-01-8	All application	0 PPM	Regulation (EU) No 2019/1021
Chlorine bleaching agent/Chlorinated Organic Solvents	N/A	Packaging	0 PPM	Bel Power Solutions Requirement
Diphenylamine, Substituted (SDPA)	122-39-4	Anti-oxidants used in adhesives, resins, polymer coating, paper products	0 PPM	Bel Power Solutions Requirement
Nitrogen trifluoride	7783-54-2	Preparations and articles	0 PPM	Bel Power Solutions Requirement
Heptabromodiphenyl ether	68928-80-3	All application	0 PPM	Regulation (EU) No 2019/1021
Hexabromodiphenyl ether	36483-60-0 182677-30-1	All application	0 PPM	Regulation (EU) No 2019/1021
Tetrabromodiphenyl ether	See Table 4.41	All application	0 PPM	Regulation (EU) No 2019/1021

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6.2 Substances require to be reported

The materials listed in table 2, while not yet banned, are substances “of interest” to various regulatory and industry organizations. These substances must be reported when concentrations exceed the Threshold Reporting Level. The Threshold Reporting Level shall be of the entire assembly. Refer to paragraph 4 for a detailed list of materials by chemical/industrial name and CAS number when applicable.

Ancillary materials that may be delivered to a Bel Power Solutions customer along with the product include shipping boxes, cushioning (i.e., bubble wrap), labels, environmental control/monitoring (i.e., desiccant, humidity indicator cards), tape, carrier trays, straps, etc. All such material must comply with the substance restrictions defined in Table 2. They are also subject to the material reporting requirements. For detail requirements regarding packaging please see also paragraph 3.4

Table 2 Substances of interest

Substances	Substance identifier	Scope	Threshold reporting level	Reference
Phthalates, Selected Group	See Table 4.32 for detail CAS no.	All application	1000 PPM	ANNEX XVII of REACH Regulation (EC) No 1907/2006; U.S. Consumer Product Safety Improvement Act; California Safe Drinking Water and Toxic Enforcement Act 1986 (proposition 65)
Ammonium sulphide	12135-76-1	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Ammonium hydrogen sulphide	12124-99-1	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Neutral anhydrous carbonate PbCO ₃	598-63-0	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Lead-bis(carbonate)-dihydroxide 2PbCO ₃ -Pb(OH) ₂	1319-46-6	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Lead sulphate PbSO ₄ 1 : 1	7446-14-2	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Lead sulphate PbXSO ₄	15739-80-7	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Methylenediphenyl diisocyanate (MDI)	26447-40-5	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Cyclohexane	110-82-7	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Ammonium nitrate (AN)	6484-52-2	All application	0 PPM	(EC) 1907/2006, Annex XVII (EU REACH)
Phosphorus based flame retardants	See Table 4.33 for detail CAS no.	All application	500 PPM	Bel Power Solutions Requirement

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Substances	Substance identifier	Scope	Threshold reporting level	Reference
(1,1,3,3-tetramethylbutyl)pheno	27193-28-8	All application	0 PPM	Bel Power Solutions Requirement
Alkylphenols	9002-93-1	All application	0 PPM	Bel Power Solutions Requirement
Amines	See Table 4.34 for detail CAS no.	All application	0 PPM	Bel Power Solutions Requirement
Antimicrobial and/or Biocidal substances	See Table 4.35 for detail CAS no.	All application	0 PPM	Bel Power Solutions Requirement
Antimony and its compounds	See Table 4.36 for detail CAS no.	All application	1000 PPM	Bel Power Solutions Requirement
Boric Acid	10043-35-3	All application	0 PPM	Bel Power Solutions Requirement
Boric Acid	11113-50-1	All application	0 PPM	Bel Power Solutions Requirement
4,4'-methylenedianiline	101-77-9	All application	30 PPM	Bel Power Solutions Requirement
Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	All application	0 PPM	(EC) 1907/2006, Annex XIV (EU REACH)
Hexachlorocyclohexane,	319-84-6, 319-85-7	All application	0 PPM	Bel Power Solutions Requirement
Chlorinated paraffins and waxes	See Table 4.39 for detail CAS no.	All application	900 PPM	Bel Power Solutions Requirement
Medium Chain Chlorinated Parafins (MCCPs)	See Table 4.40 for detail CAS no.	Product and packaging	0 PPM	Bel Power Solutions Requirement
N,N'-ditolyl-p-phenylenediamine,	27417-40-9	All application	0 PPM	Bel Power Solutions Requirement
N-tolyl-N'-xylyl-p-phenylenediamine	28726-30-9	All application	0 PPM	Bel Power Solutions Requirement
N,N'-dixylyl-p-phenylenediamine	70290-05-0	All application	0 PPM	Bel Power Solutions Requirement
Petrolatum	8009-03-8	All application	0 PPM	Bel Power Solutions Requirement
Tri-o-cresyl phosphate or Tricresyl phosphate (TCP)	1330-78-5	All application	0 PPM	Bel Power Solutions Requirement

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Substances	Substance identifier	Scope	Threshold reporting level	Reference
Rubber cement including benzene(>5%)	-	All application	0 PPM	Bel Power Solutions Requirement
Heptachlor	76-44-8	All application	0 PPM	Bel Power Solutions Requirement
Tetrabromobisphenol A (TBBPA)	79-94-7	All application	0 PPM	Bel Power Solutions Requirement
Bismuth and its alloys	7440-69-9	All application	0 PPM	Bel Power Solutions Requirement
Magnesium and its alloys	7439-95-4	All application	0 PPM	Bel Power Solutions Requirement
Selenium and its compounds	7782-49-2	All application	0 PPM	Bel Power Solutions Requirement
Tributyl tin and its compounds	688-73-3	All application	0 PPM	Bel Power Solutions Requirement
Triphenyl tin and its compounds	668-34-8	All application	0 PPM	Bel Power Solutions Requirement
Ammonium polysulphide	12259-92-6	All application	0 PPM	Bel Power Solutions Requirement
Diboron trioxide	1303-86-2	All application	0 PPM	Bel Power Solutions Requirement
Yellow Phosphorus	12185-10-3	All application	0 PPM	Bel Power Solutions Requirement
Diphenylether, octabromo derivative C ₁₂ H ₂ Br ₈ O	32536-52-0	All application	0 PPM	Bel Power Solutions Requirement
Refractory Ceramic Fibres, Aluminosilicate	650-017-00-8 (index no.)	All application	1000 PPM	Bel Power Solutions Requirement
Refractory Ceramic Fibres, Zirconia Aluminosilicate	650-017-00-8 (index no.)	All application	1000 PPM	Bel Power Solutions Requirement
SVHCs listed on the latest version of the REACH list	http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp	All application	1000 PPM per product	(EC) 1907/2006, Annex XIV (EU REACH)
Indium phosphide	22398-80-7	All applications	1000 PPM	Bel Power Solutions Requirement

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6.3 Exemption

In some cases, the use of prohibited/restricted substances is allowed under specific circumstances and/or for specific time frames. Per RoHS legislation, lead (Pb), cadmium (Cd) and mercury (Hg) content may exceed the MCV threshold under the specific circumstances. For current list of exemption please see [Annex III of RoHS directive 2011/65/EU](#)

6.4 Requirements for packaging

Requirements specified in this section apply to all packaging used for selling or shipping BPS product:

- All homogeneous materials used in packaging must comply with “heavy metals” restrictions. The sum concentration of lead, hexavalent chromium, cadmium, and mercury must not exceed 100 parts per million (0.0100%) by weight in any single homogeneous material.
- Other substance restrictions that apply to packaging are contained in Section 3.2
- Exemptions from substance restrictions available under EU RoHS Directive are not applicable to EU Packaging Directive
- All materials used in packaging must be recyclable, and must be labeled for recycling, according to applicable ISO, DIN, and country-specific requirements
- Country-specific labeling must meet requirements for Japan, Korea, Taiwan, and China, where applicable.
- Chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs) must not be used in or for the manufacturing of plastic foam packaging materials (for example as a foam blowing agent).
- Methyl bromide sterilization must not be used on wood packaging.
- Elemental chlorine shall not be used as a bleaching agent to bleach virgin or recovered content fiber used in paper-based packaging.

6.5 Custom product and industry specific requirements.

In addition to the requirements mention in point 6.1 and 6.2 BPS product need to meet following requirements if agreed prior design:

- Product designed for automotive industry need to meet requirements defined in [GADSL](#)
- Product designed for railway industry need to meet requirements defined in [RISL](#)
- Product designed according to customer specification need to follow any requirements provided by customer prior design

6.6 Detailed Chemical Identification

The detailed lists of chemicals identified in Section 6 are defined in the following tables. Each table gives the class of material, chemical or industrial names and CAS numbers when available. These lists are not comprehensive; they represent examples of chemicals with known CAS numbers.

Table 4.1 Cadmium/Cadmium compound

Substance	CAS number	Substance	CAS number
Cadmium	7440-43-9	Cadmium sulfide	1306-23-6
Cadmium acetate	543-90-8	Cadmium sulphite	13477-23-1
Cadmium acrylate	15743-19-8	Cadmium tantalum oxide (CdTa2O6)	12292-07-8
Cadmium arsenide (Cd3As2)	12006-15-4	Cadmium telluride (CdTe)	1306-25-8
Cadmium bromide	7789-42-6	Cadmium titanium oxide (CdTiO3)	12014-14-1
Cadmium bromide, tetrahydrate	13464-92-1	Cadmium tungsten oxide (CdWO4)	7790-85-4
Cadmium carbonate	513-78-0	Cadmium vanadium oxide (CdV2O6)	16056-72-7

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Substance	CAS number	Substance	CAS number
Cadmium chloride	10108-64-2	Cadmium zinc sulfide	11129-14-9
Cadmium chloride phosphate (Cd5Cl(PO4)3)	12185-64-7	Cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2
Cadmium chloride phosphate (Cd5Cl(PO4)3), manganese-doped	100402-53-7	Cadmium zirconium oxide (CdZrO3)	12139-23-0
Cadmium chloride, hydrate (2:5)	7790-78-5	Cadmium-barium laurate	15337-60-7
Cadmium chromate	14312-00-6	Carbonic acid, cadmium salt	93820-02-1
Cadmium cyanide (Cd(CN)2)	542-83-6	Diboron trcadmium hexaoxide	13701-66-1
Cadmium diicosanoate	14923-81-0	Dicadmium hexakis(cyano-C)ferrate(4-)	13755-33-4
Cadmium dinitrite	7790-83-2	Diphosphoric acid, barium cadmium salt	37131-86-5
Cadmium diricinoleate	13832-25-2	Diphosphoric acid, cadmium salt	19262-93-2
Cadmium fluoborate	14486-19-2	Diphosphoric acid, cadmium salt (1:2)	15600-62-1
Cadmium fluoride (CdF2)	7790-79-6	Phosphoric acid, ammonium cadmium salt (1:1:1)	14520-70-8
Cadmium hexafluorosilicate(2-)	17010-21-8	Phosphoric acid, cadmium salt	13847-17-1
Cadmium hydrogen phosphate	14067-62-0	Phosphoric acid, cadmium salt (2:3)	13477-17-3
Cadmium hydroxide (Cd(OH)2)	21041-95-2	Selenic acid, cadmium salt (1:1)	13814-62-5
Cadmium iodate	7790-81-0	Selenious acid, cadmium salt (1:1)	13814-59-0
Cadmium iodide	7790-80-9	Silicic acid (H2SiO3), cadmium salt (1:1)	13477-19-5
Cadmium mercury telluride ((Cd,Hg)Te)	29870-72-2	Sulfamic acid, cadmium salt (2:1)	14017-36-8
Cadmium molybdenum oxide (CdMoO4)	13972-68-4	Telluric acid (H2TeO3), cadmium salt (1:1)	15851-44-2
Cadmium niobium oxide (Cd2Nb2O7)	12187-14-3	Telluric acid (H2TeO4), cadmium salt (1:1)	15852-14-9
Cadmium nitrate (Nitric acid cadmium salt tetrahydrate (Cd · 2NO3 · 4H2O))	10022-68-1	Tetradecanoic acid, cadmium salt	10196-67-5
Cadmium nitrate (Nitric acid cadmium salt (2:1) (Cd · 2NO3))	10325-94-7	Cadmiumbis(diethyldithiocarbamat)	14239-68-0
Cadmium oxide	1306-19-0	cadmium(+2) cation diformate	4464-23-7
Cadmium oxide (CdO), solid solution with calcium oxide and titanium oxide (TiO2), praseodymium-doped	101356-99-4	Cadmium Litophone Yellow	90604-90-3
Cadmium oxide (CdO), solid solution with magnesium oxide, tungsten oxide (WO3) and zinc oxide	102110-30-5	Cadmium Zinc litophone Yellow	90604-89-0
Cadmium peroxide (Cd(O2))	12139-22-9	Cadmium Mercury Sulfide	1345-09-1
Cadmium phosphide (Cd3P2)	12014-28-7	Cadmium Zink Sulfide Yellow	5.7.8048

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Substance	CAS number	Substance	CAS number
Cadmium propionate	16986-83-7	Nonanoic acid, branched, cadmium salt	93686-40-9
Cadmium selenide (CdSe)	1306-24-7	Cadmium chromate	14312-00-6
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped	101357-00-0	Cadmium Mercury Sulfide	1345-09-1
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped	101357-01-1	Cadmium dinitrite	7790-83-2
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped	101357-02-2	Cadmium selenide (CdSe)	1306-24-7
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped	101357-03-3	Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped	101357-00-0
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped	101357-04-4	Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped	101357-01-1
Cadmium selenide sulfide (Cd ₂ SeS)	12214-12-9	Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped	101357-02-2
Cadmium selenide sulfide (CdSe _{0.53} S _{0.47})	71243-75-9	Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped	101357-03-3
Cadmium selenide sulfide, (Cd ₂ SeS)	12213-70-6	Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped	101357-04-4
Cadmium selenide sulphide	11112-63-3	Cadmium selenide sulfide (Cd ₂ SeS)	12214-12-9
Cadmium stearate	2223-93-0	Cadmium selenide sulfide (CdSe _{0.53} S _{0.47})	71243-75-9
Cadmium succinate	141-00-4	Cadmium selenide sulfide, (Cd ₂ SeS)	12213-70-6
Cadmium sulfate	10124-36-4	Cadmium selenide sulphide	11112-63-3
Cadmium sulfate, hydrate	7790-84-3	Selenic acid, cadmium salt (1:1)	13814-62-5
Selenious acid, cadmium salt (1:1)	13814-59-0		

Table 4.2 Hexavalent Chromium/Hexavalent Chromium compounds

Substance	CAS number	Substance	CAS number
Ammonium dichromate	7789-09-5	Strontium chromate	7789-06-2
Chromium (VI) oxide	1333-82-0	Zinc chromate	13530-65-9
Barium chromate	10294-40-3	Dichromium tris(chromate)	24613-89-6

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Substance	CAS number	Substance	CAS number
Calcium chromate	13765-19-0	Potassium hydroxyoctaoxidizincatedichromate	11103-86-9
Chromic acetate	1066-30-4	Pentazinc chromate octahydroxide	49663-84-5
Chromium trioxide	1333-82-0	Chromium, ion (Cr6+)	18540-29-9
Lead (II) chromate	7758-97-6	Lithium chromate	14307-35-8
Lead chromate molybdate sulphate red	12656-85-8	Ammonium chromate	7788-98-9
Lead sulfochromate yellow	1344-37-2	Copper chromate	13548-42-0
Potassium chlorochromate	16037-50-6	Magnesium chromate	13423-61-5
Potassium chromate	7789-00-6	Lead chromate (orange color)	1344-38-3
Potassium dichromate	7778-50-9	Dichromium zinc tetraoxide	12018-19-8
Silver chromate	7784-01-02	Zinc dichromate	14018-95-2
Sodium chromate	7775-11-3	Calcium dichromate	14307-33-6
Sodium chromate, dihydrate	7789-12-0	Copper chromite	12053-18-8
Sodium dichromate	10588-01-9		

Table 4.3 Lead/Lead compounds

Substance	CAS number	Substance	CAS number
(2-Ethylhexanoato-O)(isodecanoato-O)lead	94246-92-1	Lead nitrate	10099-74-8
(2-Ethylhexanoato-O)(isononanoato-O)lead	94246-91-0	Lead nitroresorcinate	51317-24-9
(2-Ethylhexanoato-O)(isooctanoato-O)lead	94246-90-9	Lead oleate	1120-46-3
(2-Ethylhexanoato-O)(neodecanoato-O)lead	94246-93-2	Lead oxalate	814-93-7
(isodecanoato-O)(isononanoato-O)lead	94246-86-3	Lead oxide	1335-25-7
(isodecanoato-O)(isooctanoato-O)lead	94246-85-2	Lead oxide (Pb2O)	12059-89-1
(isodecanoato-O)(neodecanoato-O)lead	94246-87-4	Lead oxide (PbO), lead-contg.	68411-78-9
(isononanoato-O)(isooctanoato-O)lead	94246-84-1	Lead oxide (PbO), retort	69029-53-4
(isononanoato-O)(neodecanoato-O)lead	94481-58-0	Lead oxide phosphonate (Pb3O2(HPO3))	12141-20-7
(Neononanoato-O)(neoundecanoato-O)lead	93894-64-5	Lead oxide phosphonate, hemihydrate	1344-40-7

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Substance	CAS number	Substance	CAS number
.alpha.-D-Glucopyranose, 1-(dihydrogen phosphate), lead salt	68901-12-2	Lead oxide sulfate	12765-51-4
[.mu.-(4,6-Dinitroresorcinolato(2-)-O1,O3)]dihydroxydilead	84837-22-9	Lead oxide sulfate (Pb2O(SO4))	12036-76-9
[.mu.-[[5,5'-Azobis[1H-tetrazolato]](2-)]dihydroxydilead	94015-57-3	Lead oxide sulfate (Pb4O3(SO4))	12202-17-4
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead salt	14450-60-3	Lead oxide sulfate (Pb5O4(SO4))	12065-90-6
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3)	512-26-5	Lead palmitate	19528-55-3
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3), trihydrate	6107-83-1	Lead pentadecanoate	93966-74-6
1,2-Benzenedicarboxylic acid, lead(2+) salt	18608-34-9	Lead perchlorate	13637-76-8
1,2-Benzenedicarboxylic acid, lead(2+) salt, basic	90193-83-2	Lead peroxide	1309-60-0
1,3,5,7,9-Pentaoxa-2.lambda.2,4.lambda.2,6.lambda.2,8.lambda.2-tetraplumbacyclotridec-11-ene-10,13-dione, (Z)-	12275-07-9	Lead phosphate	7446-27-7
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, lead salt	54554-36-8	Lead phthalate	16183-12-3
1,3-Benzenediol, 2,4,6-trinitro-, lead salt	15245-44-0	Lead phthalate	6838-85-3
1,3-Benzenediol, nitro-, lead(2+) salt (1:1)	70268-38-1	Lead picrate	25721-38-4
2,4-Cyclohexadien-1-one, 3,5,6-trihydroxy-4,6-bis(3-methyl-2-butenyl)-2-(3-methyl-2-oxobutyl)-, lead salt, (R)-	68901-11-1	Lead propionate	42558-73-6
2-Butenedioic acid (E)-, lead salt	13698-55-0	Lead pyrophosphate	13453-66-2
2-Butenedioic acid (E)-, lead(2+) salt, basic	90268-59-0	Lead ruthenium oxide (PbRuO3)	37194-88-0
2-Butenedioic acid (Z)-, lead(2+) salt, basic	90268-66-9	Lead sebacate	29473-77-6
2-Propenoic acid, 2-methyl-, lead salt, basic	90552-19-5	Lead selenate	7446-15-3

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Substance	CAS number	Substance	CAS number
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, lead(2+) bis(2-methyl-2-propenoate) and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)	68155-47-5	Lead selenide (PbSe)	12069-00-0
3-(Triphenylplumbyl)-1H-pyrazole	51105-45-4	Lead selenite	7488-51-9
7,11-Metheno-11H,13H-tetrazolo[1,5-c][1,7,3,5,2,6]dioxadiazadiplumbacyclododecine, 5,5,13,13-tetrahydro-4,5-dihydro-4,8,10,15-tetranitro-	19651-80-0	Lead silicate	11120-22-2
7-Methyloctanoic acid, lead salt	97952-39-1	Lead silicate	13566-17-1
9-Hexadecenoic acid, lead(2+) salt, (Z)-, basic	90388-15-1	Lead silicate	22569-74-0
9-Octadecenoic acid (Z)-, lead salt	15347-55-4	Lead silicate sulfate	12687-78-4
9-Octadecenoic acid (Z)-, lead salt, basic	90459-88-4	Lead silicate sulfate	67711-86-8
Acetic acid, lead salt, basic	51404-69-4	Lead stearate	7428-48-0
Acetoxytributylplumbane	2587-82-8	Lead stearate dibasic	52652-59-2
Acetoxytrimethylplumbane	5711-19-3	Lead styphnate	63918-97-8
Acetoxytriphenylplumbane	1162-06-7	Lead subacetate	1335-32-6
Arsenic acid, lead (4+) salt	53404-12-9	Lead succinate	1191-18-0
Basic lead sulfite	12608-25-2	Sulphuric acid, lead salt	15739-80-7
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives, lead(2+) salts	84961-75-1	Sulphuric acid, lead salt	15739-80-7
Bis(diethyldithiocarbamate-S,S')lead	17549-30-3	Lead sulfate	7446-14-2
Bis(o-acetoxybenzoato)lead	62451-77-8	Lead sulfate	7446-14-2
Bis(pentane-2,4-dionato-O,O')lead	15282-88-9	Lead sulfate, tribasic	12397-06-7
Bismuth lead ruthenium oxide	65229-22-3	Lead sulfide (PbS)	1314-87-0
Bismuth, compound with lead (1:1)	12048-28-1	Lead sulfomolybdochromate, silica encapsulated	116565-73-2
Butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, lead(2+) salt (1:1)	815-84-9	Lead tantalate	12065-68-8
Carbamodithioic acid, ethylphenyl-, lead(2+) salt	93892-65-0	Lead telluride	1314-91-6

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Carbonic acid, lead(2+) salt	25510-11-6	Lead tellurite	13845-35-7
Castor oil, dehydrated, polymer with rosin, calcium lead zinc salt	68604-05-7	Lead tetrachloride	13463-30-4
Chlorotrimethylplumbane	1520-78-1	Lead tetracosanoate	93966-38-2
Chlorotriphenylplumbane	1153-06-6	Lead tetraoxide	1314-41-6
Lead sulfochromate yellow(C.I. Pigment Yellow 34)	1344-37-2	Lead thiocyanate	592-87-0
Chromium lead oxide	11119-70-3	Lead thiosulfate	13478-50-7
Chromium lead oxide sulfate, silica-modified	116565-74-3	Lead tin oxide (PbSnO ₃)	12036-31-6
Copper, .beta.-resorcyate salicylate lead complexes	68411-07-4	Lead titanium oxide (PbTiO ₃)	12060-00-3
Cyclohexanebutanoic acid, lead(2+) salt	62637-99-4	Lead titanium zirconium oxide (Pb(Ti,Zr)O ₃)	12626-81-2
Decanoic acid, branched, lead salts	90342-24-8	Lead trioxide	1314-27-8
Decanoic acid, lead salt	20403-42-3	Lead tungsten oxide	2139962
Diacetoxypdiphenylplumbane	6928-68-3	Lead tungsten oxide	12737-98-3
Diamyldithiocarbamate, lead	109707-90-6	Lead uranate pigment (9 Cl)	85536-79-4
Diantimony lead tetroxide	16450-50-3	Lead vanadate	10099-79-3
Dibasic lead stearate	56189-09-4	Lead zirconate	12060-01-4
Dibismuth dilead tetraruthenium tridecaoxide	11116-83-9	Lead(2+) (R)-12-hydroxyoleate	13094-04-7
Dilead chromate dihydroxide	12017-86-6	Lead(2+) (Z)-hexadec-9-enoate	93858-24-3
Dilead dirhodium heptaoxide	37240-96-3	Lead(2+) 2,4-dinitroresorcinolate	13406-89-8
Diphenyllead dichloride	2117-69-3	Lead(2+) 4-(1,1-dimethylethyl)benzoate	85292-77-9
Diplumbane, hexaethyl-	2388-00-3	Lead(2+) 4,4'-isopropylidenebisphenolate	93858-23-2
Diplumbane, hexaphenyl-	447061	Lead(2+) 4,6-dinitro-o-cresolate	65121-76-8
Docosanoic acid, lead salt	3249-61-4	Lead(2+) acrylate	867-47-0
Dodecanoic acid, lead salt, basic	90342-56-6	Lead(2+) decanoate	15773-52-1
Dodecanoic acid, lead(2+) salt	15773-55-4	Lead(2+) heptadecanoate	63399-94-0
Fatty acids, C12-18, lead salts	68131-60-2	Lead(2+) isohexadecanoate	95892-13-0

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Substance	CAS number	Substance	CAS number
Fatty acids, C14-26, lead salts	93165-26-5	Lead(2+) isooctadecanoate	70727-02-5
Fatty acids, C16-18, lead salts	91031-62-8	Lead(2+) neodecanoate	71684-29-2
Fatty acids, C18-24, lead salts	84776-54-5	Lead(2+) neononanoate	93894-48-5
Fatty acids, C4- 20-branched, lead salts	125328-49-6	Lead(2+) neoundecanoate	93894-49-6
Fatty acids, C6- 19-branched, lead salts	91002-20-9	Lead(2+) octanoate	7319-86-0
Fatty acids, C8-10, lead salts	91031-61-7	Lead(4+) stearate	7717-46-6
Fatty acids, C8-10-branched, lead salts	85049-42-9	Lead(II) fumarate	71686-03-8
Fatty acids, C8-10-branched, lead salts, basic	68409-79-0	Lead(II) isodecanoate	84852-34-6
Fatty acids, C8-12, lead salts	84776-53-4	Lead(II) isooctanoate	93981-67-0
Fatty acids, C8-18 and C18-unsaturated, lead salts	84776-36-3	Lead(II) maleate	17406-54-1
Fatty acids, C8-9, lead salts	91031-60-6	Lead(IV) fluoride	7783-59-7
Fatty acids, C9-11-branched, lead salts	81412-57-9	Lead, (2-methyl-4,6-dinitrophenolato-O1)(nitrate-O)-.mu.-oxodi-, monohydrate	79357-62-3
Fatty acids, castor-oil, hydrogenated, lead salts	91697-36-8	Lead, [.mu.-[1,2-benzenedicarboxylato(2-)-O1:O2]]di-.mu.-oxotri-, cyclo-	17976-43-1
Fatty acids, coco, lead salts	92044-89-8	Lead, [1,2-benzenedicarboxylato(2-)]dioxotri-	69011-06-9
Fatty acids, tall-oil, lead manganese salts	61788-53-2	Lead, [1,2-benzenedicarboxylato(2-)]oxodi-	57142-78-6
Fatty acids, tall-oil, lead salts	61788-54-3	Lead, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	15187-16-3
Fatty acids, tallow, reaction products with lead oxide	94349-78-7	Lead, 2-ethylhexanoate isodecanoate complexes, basic	90431-30-4

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Substance	CAS number	Substance	CAS number
Flue dust, lead blast furnace	70514-05-5	Lead, 2-ethylhexanoate isononanoate complexes, basic	90431-31-5
Formic acid, lead salt	7056-83-9	Lead, 2-ethylhexanoate isooctanoate complexes, basic	90431-32-6
Gilsonite, polymer with linseed oil, lead salt	68989-89-9	Lead, 2-ethylhexanoate naphthenate complexes	90431-33-7
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, lead(2+) sodiumsalt (1:1:2)	22904-40-1	Lead, 2-ethylhexanoate naphthenate complexes, basic	90431-34-8
Hafnium lead trioxide	12029-23-1	Lead, 2-ethylhexanoate neodecanoate complexes, basic	90431-35-9
Hexacosanoic acid, lead salt	94006-20-9	Lead, 2-ethylhexanoate tall-oil fatty acids complexes	68187-37-1
Hexadecanoic acid, lead salt, basic	90388-09-3	Lead, alkyls, manufacturing wastes	70513-89-2
Hexadecanoic acid, lead(2+) salt, basic	90388-10-6	Lead, antimonial	69029-50-1
Hexanoic acid, 2-ethyl-, lead(2+) salt	301-08-6	Lead, antimonial, dross	69029-51-2
Hexanoic acid, 3,5,5-trimethyl-, lead salt	23621-79-6	Lead, bis(2-hydroxybenzoato-O1,O2)-, (T-4)-	15748-73-9
Hydroxy(neodecanoato-O)lead	71753-04-3	Lead, bis(dipentylcarbomodithioato-S,S')-, (T-4)-	36501-84-5
Iron lead oxide (Fe12PbO19)	12023-90-4	Lead, bis(diphenylcarbomodithioato-S,S')-, (T-4)-	75790-73-7
Isodecanoic acid, lead salt, basic	90431-14-4	Lead, bis(octadecanoato)dioxotri-	12565-18-3

Substance	CAS number	Substance	CAS number
Isoodecanoic acid, lead(2+) salt, basic	91671-82-8	Lead, bis(octadecanoato)dioxotri-	12578-12-0
Isononanoic acid, lead salt	27253-41-4	Lead, bullion	97808-88-3
Isononanoic acid, lead salt, basic	90431-21-3	Lead, C3-13-fatty acid naphthenate complexes	79803-79-5
Isooctanoic acid, lead salt	64504-12-7	Lead, C4-10-fatty acid naphthenate complexes	84067-00-5
Isooctanoic acid, lead salt, basic	90431-26-8	Lead, C4-10-fatty acid octanoate complexes	92200-92-5
Isooctanoic acid, lead(2+) salt, basic	91671-83-9	Lead, C5-23-branched carboxylate C4-10-fatty acid complexes	84066-98-8
Isooundecanoic acid, lead(2+) salt, basic	91671-84-0	Lead, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes	83711-45-9
Lauric acid, lead salt	15306-30-6	Lead, C5-23-branched carboxylate naphthenate complexes	83711-46-0
Leach residues, lead slag	69029-71-6	Lead, C5-23-branched carboxylate naphthenate octanoate complexes	83711-47-1
Lead	7439-92-1	Lead, C5-23-branched carboxylate octanoate complexes	84066-99-9
Lead	7439-92-1	Lead, C6-19-branched carboxylate naphthenate complexes	70084-67-2
Lead	7439-92-1	Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes	90431-28-0
Lead (II) acetate, trihydrate	6080-56-4	Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes, overbased	90431-27-9

Substance	CAS number	Substance	CAS number
Lead (II) methylthiolate	35029-96-0	Lead, C9- 28-neocarboxylate 2-ethylhexanoate complexes, basic	125494-56-6
Lead (IV) acetate	546-67-8	Lead, decanoate octanoate complexes	70321-55-0
Lead 12-hydroxyoctadecanoate	65127-78-8	Lead, di-.mu.-hydroxy(2-methyl-4,6-dinitrophenolato-O1)(nitrate-O)di-	96471-22-6
Lead 198	16646-00-7	Lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di-	12403-82-6
Lead 199	27486-00-6	Lead, dross	69029-52-3
Lead 2,4-dihydroxybenzoate	20936-32-7	Lead, dross, antimony-rich	69029-45-4
Lead 200	16645-99-1	Lead, dross, bismuth-rich	69029-46-5
Lead 201	17239-87-1	Lead, dross, copper-rich	69227-11-8
Lead 202	15752-86-0	Lead, dross, vanadium-zinc-containing	100656-49-3
Lead 203	14687-25-3	Lead, isodecanoate isononanoate complexes, basic	90431-36-0
Lead 205	14119-28-9	Lead, isodecanoate isooctanoate complexes, basic	90431-37-1
Lead 209	14119-30-3	Lead, isodecanoate naphthenate complexes	90431-38-2
Lead 210	14255-04-0	Lead, isodecanoate naphthenate complexes, basic	101012-92-4
Lead 211	15816-77-0	Lead, isodecanoate neodecanoate complexes, basic	90431-39-3
Lead 212	15092-94-1	Lead, isononanoate isooctanoate complexes, basic	84929-94-2
Lead 214	15067-28-4	Lead, isononanoate naphthenate complexes	84929-97-5

Substance	CAS number	Substance	CAS number
Lead 2-ethylhexoate	16996-40-0	Lead, isononanoate naphthenate complexes, basic	90431-40-6
Lead 3-(acetamido)phthalate	93839-98-6	Lead, isononanoate neodecanoate complexes, basic	90431-41-7
Lead 5-nitroterephthalate	60580-60-1	Lead, isooctanoate naphthenate complexes	68515-80-0
Lead acetate	15347-57-6	Lead, isooctanoate naphthenate complexes, basic	90431-42-8
Lead acetate	301-04-2	Lead, isooctanoate neodecanoate complexes	101013-06-3
Lead acrylate	14466-01-4	Lead, isooctanoate neodecanoate complexes, basic	84929-95-3
Lead alloy, dross	69011-59-2	Lead, naphthenate neodecanoate complexes	90431-43-9
Lead alloy, Pb,Sn, dross	69011-60-5	Lead, naphthenate neodecanoate complexes, basic	84929-96-4
Lead antimonate	13510-89-9	Lead, neononanoate neoundecanoate complexes, basic	90431-44-0
Lead antimonide	12266-38-5	Lead, zinc dross	94551-60-7
Lead arsenate	3687-31-8	Linseed oil, polymer with tung oil, lead salt	68990-75-0
Lead arsenate	7784-40-9	Linseed oil, reaction products with lead oxide (Pb3O4) and mastic	68152-99-8
Lead arsenate (Pb3(AsO4)2)	10102-48-4	Methanesulfonic acid, lead(2+) salt	17570-76-2
Lead arsenate, unspecified	7645-25-2	Molybdate orange (Lead chromate pigment)	12656-85-8
Lead arsenite	10031-13-7	Naphthalenesulfonic acid, diisononyl-, lead(2+) salt	63568-30-9

Substance	CAS number	Substance	CAS number
Lead azide	13424-46-9	Naphthalenesulfonic acid, dinonyl-, lead(2+) salt	61867-68-3
Lead benzoate	15907-04-7	Naphthenic acids, lead (2+) salts	91078-81-8
Lead bis(12-hydroxystearate)	58405-97-3	Naphthenic acids, lead manganese salts	61788-52-1
Lead bis(2-ethylhexanoate)	93840-04-1	Naphthenic acids, lead salts, basic	92045-67-5
Lead bis(3,5,5-trimethylhexanoate)	35837-70-8	Neodecanoic acid, lead salt, basic	90459-25-9
Lead bis(5-oxo-DL-prolinate)	85392-78-5	Neononanoic acid, lead salt, basic	90459-26-0
Lead bis(5-oxo-L-prolinate)	85392-77-4	Neoundecanoic acid, lead salt, basic	90459-28-2
Lead bis(isononanoate)	52847-85-5	Nitric acid, lead(2+) salt, reaction products with sodium tin oxide	97953-08-7
Lead bis(isoundecanoate)	93965-29-8	Nitrous acid, lead(2+) salt	13826-65-8
Lead bis(nonylphenolate)	72586-00-6	Octadecanoic acid, lead salt, basic	90459-51-1
Lead bis(piperidine-1-carbodithioate)	41556-46-1	Octadecanoic acid, lead(2+) salt, basic	90459-52-2
Lead bis(p-octylphenolate)	84394-98-9	Octadecanoic acid, lead(2+) salt, tribasic	52080-60-1
Lead bis(tetracosylbenzenesulphonate)	85865-91-4	Octanoic acid, lead salt	15696-43-2
Lead bis(tricosanoate)	93966-37-1	Orthoboric acid, lead(2+) salt	35498-15-8
Lead bis[didodecylbenzenesulphonate]	85865-92-5	Perchloric acid, reaction products with lead oxide (pbo) and triethanolamine	99749-31-2
Lead borate	14720-53-7	Petrolatum, petroleum, oxidized, lead salt	67674-14-0
Lead b-resorcyate	41453-50-3	Phenol, 2-methyldinitro-, lead salt	50319-14-7
Lead bromide (PbBr ₂)	10031-22-8	Phenol, dodecyl-, lead(2+) salt	68586-21-0

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Substance	CAS number	Substance	CAS number
Lead carbonate	598-63-0	Phenol, tetrapropylene-, lead(2+) salt	122332-23-4
Lead carbonate	598-63-0	Phosphonic acid, lead salt	16038-76-9
Lead carbonate hydroxide	1319-46-6	Phosphonic acid, lead salt, basic	53807-64-0
Lead carbonate hydroxide	1319-46-6	Phosphonic acid, lead(2+) salt	24824-71-3
Lead chloride	7758-95-4	Phosphonic acid, lead(2+) salt (1:1)	13453-65-1
Lead chloride (V.A.N.)	12612-47-4	Phosphonic acid, lead(2+) salt (2:1)	15521-60-5
Lead chloride oxide	12205-72-0	Phosphoric acid, lead(2+) salt (1:1)	15845-52-0
Lead chromate	7758-97-6	Phosphoric acid, mixed butyl and hexyl diesters, lead(2+) salts	93925-27-0
Lead chromate oxide	18454-12-1	Phosphorodithioate O,O-bis(1,3-dimethylbutyl), lead salt	20383-42-0
Lead chromate silicate	11113-70-5	Phosphorodithioic acid, mixed O,O-bis(bu and pentyl) esters, lead(2+) salt	91783-10-7
Lead chromate silicate (Pb ₃ (CrO ₄)(SiO ₄))	69011-07-0	Plumbane, chlorotriethyl-	1067-14-7
Lead chromate sulfate (Pb ₉ (CrO ₄) ₅ (SO ₄) ₄)	51899-02-6	Plumbane, diethyldimethyl-	1762-27-2
Lead cyanamidate	20890-10-2	Plumbane, ethyl methyl derivatives	68610-17-3
Lead cyanamide	20837-86-9	Plumbane, ethyltrimethyl-	1762-26-1
Lead cyanamide	35112-70-0	Plumbane, tetrabutyl-	1920-90-7
Lead cyanide	592-05-2	Plumbane, tetrakis(1-methylethyl)-	14846-40-3
Lead dibenzoate	873-54-1	Plumbane, tetrakis(1-methylpropyl)-	65151-08-8
Lead dibromate	34018-28-5	Plumbane, triethylmethyl-	1762-28-3
Lead dibutanolate	65119-94-0	Plumbate (PbO ₂₂ -), disodium	12034-30-9

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Substance	CAS number	Substance	CAS number
Lead dibutyrate	819-73-8	Plumbate (PbO ₄)-, calcium (1:2), (T-4)-	12013-69-3
Lead didocosanoate	29597-84-0	Potassium pentadecaoxidoplumbatepentaniobate(1-)	12372-45-1
Lead dihexanoate	15773-53-2	Residues, copper-iron-lead-nickel matte, sulfuric acid-insol.	102110-49-6
Lead dilactate	18917-82-3	Salicylate, lead (II)	6107-93-3
Lead dilinoleate	33627-12-2	Silicic acid (H ₂ SiO ₃), calcium salt (1:1), lead and manganese-doped	100402-96-8
Lead dimethyldithiocarbamate	19010-66-3	Silicic acid (H ₂ SiO ₃), lead(2+) salt (1:1)	10099-76-0
Lead dimyristate	32112-52-0	Silicic acid (H ₄ SiO ₄), lead salt	15906-71-5
Lead dipalmitate	15773-56-5	Silicic acid, calcium salt, lead and manganese-doped	102110-36-1
Lead diphosphinate	10294-58-3	Silicic acid, lead nickel salt	68130-19-8
Lead dipicrate	6477-64-1	Slimes and sludges, lead sinter dust scrubber	70514-37-3
Lead dipropionate	814-70-0	Speiss, lead-zinc	93821-72-8
Lead disulphamidate	13767-78-7	Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, lead salt	1326-05-2
Lead disulphide	12137-74-5	Stearic acid, lead (2+) salt	1072-35-1
Lead diundec-10-enoate	94232-40-3	Sulfuric acid, barium lead salt	42579-89-5
Lead fluoborate	13814-96-5	Sulfuric acid, barium salt (1:1), lead-doped	99328-54-8
Lead fluoride	7783-46-2	Sulfuric acid, lead salt, tetrabasic	52732-72-6
Lead fluoride hydroxide	97889-90-2	Sulfuric acid, lead(2+) salt, basic	90583-07-6
Lead fluorosilicate	25808-74-6	Sulfurous acid, lead salt, basic	52231-92-2

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Substance	CAS number	Substance	CAS number
Lead formate	811-54-1	Sulfurous acid, lead salt, dibasic	62229-08-7
Lead germanate	12435-47-1	Sulfurous acid, lead(2+) salt, basic	90583-37-2
Lead hexafluorosilicate	1310-03-8	Sulfurous acid, lead(2++) salt (1:1)	2025917
Lead hydroxide	19783-14-3	Telluric acid (H ₂ TeO ₃), lead(2+) salt (1:1)	15851-47-5
Lead hydroxide	39345-91-0	Tetradecanoic acid, lead salt, basic	90583-65-6
Lead hydroxide nitrate	12268-84-7	Tetraethyllead	78-00-2
Lead hydroxysalicylate	87903-39-7	Tetramethyl lead	75-74-1
Lead icosanoate	94266-32-7	Tetraphenyllead	595-89-1
Lead icosanoate (1:2)	94266-31-6	Tetrapropyl lead	3440-75-3
Lead iodate	25659-31-8	Thiosulphuric acid, lead salt	26265-65-6
Lead iodide	10101-63-0	Lead/Tin alloy	39412-44-7
Lead isophthalate	38787-87-0	Trinitrophenol, lead salt	51325-28-1
Lead linoleate	16996-51-3	Naphthenic acid, cobalt lead manganese salt	61789-50-2
Lead malate	816-68-2	Lead, bis(carbonato(2-))dihydroxytri	1344-36-1
Lead maleate	19136-34-6	Boric acid (HBO ₂), lead(2+) salt, monohydrate (8Cl, 9Cl)	10214-39-8
Lead methacrylate	1068-61-7	Fatty acids, C6-19-branched, lead salts, basic	68603-83-8
Lead methacrylate	52609-46-8	Pigment Lightfast Lead-Molybdate Orange OS (9Cl)	78690-68-3
Lead molybdate	10190-55-3	Lead naphthenate	61790-14-5
Lead monoxide	1317-36-8	Lead neobate	12034-88-7
Lead myristate	20403-41-2	Lead neodecanoate	27253-28-7
Lead naphthalate	50825-29-1		

Table 4.4 Mercury/Mercury compounds

Substance	CAS number	Substance	CAS number
(2',7'-Dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-	55728-51-3	Mercury (II) chromate	13444-75-2

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Substance	CAS number	Substance	CAS number
4'-yl)hydroxymercury			
(2-Carboxy-m-tolyl)hydroxymercury, monosodium salt	52795-88-7	Mercury (II) nitrate, monohydrate	7783-34-8
(2-Carboxyphenyl)hydroxymercury	14066-61-6	Mercury acetate	592-63-2
(Acetato-O)ethylmercury	109-62-6	Mercury acetylde	68833-55-6
(Acetato-O)methylmercury	108-07-6	Mercury ammonium chloride	10124-48-8
(Bromodichloromethyl)phenylmercury	3294-58-4	Mercury bis(4-chlorobenzoate)	15516-76-4
(Dihydroxyphenyl)phenylmercury	27360-58-3	Mercury bis(trifluoroacetate)	13257-51-7
(Lactato-O1,O2)mercury	18918-06-4	Mercury bromide (Hg ₂ Br ₂)	15385-58-7
(Maleoyldioxy)bis[phenylmercury]	2701-61-3	Mercury bromide (HgBr)	10031-18-2
(Metaborato-O)phenylmercury	31224-71-2	Mercury chloride	10112-91-1
(Phenylmercurio)urea	2279-64-3	Mercury dichromate	7789-10-8
[(2-Hydroxyethyl)amino]phenylmercury acetate	61792-06-1	Mercury diiodate	7783-32-6
[μ-[(oxydiethylene but-2-enedioato)(2-)]diphenyldimercury	94070-92-5	Mercury dipotassium tetrathiocyanate	14099-12-8
[μ-[[4,4'-(Oxydiethylene) bis(dodecenylsuccinato)](2-)]diphenyldimercury	93882-20-3	Mercury disilver tetraiodide	7784-03-4
[μ-[Metasilicato(2-)-O:O]]bis(2-methoxyethyl)dimercury	19367-79-4	Mercury distearate, pure	645-99-8
[μ-[Orthoborato(2-)-O:O']]diphenyldimercury	6273-99-0	Mercury fluoride	27575-47-9
[2,2',2''-Nitrilotri(ethanol)-N,O,O',O'']phenylmercury lactate	23319-66-6	Mercury fluoride (HgF ₂)	7783-39-3
[2-Ethylhexyl hydrogen maleato-O']phenylmercury	27605-30-7	Mercury gluconate	63937-14-4
[Benzoato(2-)-C ₂ ,O ₁]mercury	5722-59-8	Mercury nitride	12136-15-1
[Naphthoato(1-)-O]phenylmercury	31632-68-5	Mercury oleate	1191-80-6
2-(Ethylmercuriothio)benzoic acid	148-61-8	Mercury salicylate	5970-32-1
2-Ethoxyethylmercury acetate	124-08-3	Mercury selenide (HgSe)	20601-83-6
2-Ethoxyethylmercury chloride	124-01-6	Mercury silver iodide	12344-40-0
2-Hydroxy-5-(1,1,3,3-tetramethylbutyl)phenylmercury acetate	584-18-9	Mercury succinate	589-65-1
2-Methoxyethylmercury chloride	123-88-6	Mercury sulfide (HgS)	1344-48-5
6-Methyl-3-nitrobenzoxamercurate	133-58-4	Mercury telluride (HgTe)	12068-90-5
Barium tetraiodomercurate	10048-99-4	Mercury thallium dinitrate	94022-47-6

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Substance	CAS number	Substance	CAS number
Bis(5-oxo-DL-prolinato-N1,O2)mercury	94276-38-7	Mercury(1+) bromate	13465-33-3
Bis(5-oxo-L-prolinato-N1,O2)mercury	94481-62-6	Mercury(1+) ethyl sulphate	71720-55-3
Bis(acetato-O)[.mu.-[1,3-dioxane-2,5-diylbis(methylene)-c:c',O,O']]dimercury	84029-43-6	Mercury(1+) trifluoroacetate	2923-15-1
Bis(lactato-O1,O2)mercury	18917-83-4	Mercury(1+), amminephenyl-, acetate	22450-90-4
Bis(trichloromethyl)mercury	6795-81-9	Mercury(2+) (9Z,12Z)-octadeca-9,12-dienoate	7756-49-2
Bis[(+)-lactato]mercury	33724-17-3	Mercury(2+) chloroacetate	26719-07-3
Bis[(trimethylsilyl)methyl]mercury	13294-23-0	Mercury(2+), bis(2,4,6-tri-2-pyridinyl-1,3,5-triazine-N1,N2,N6)-, (OC-6-1'2)-	53010-52-9
Bromo(2-hydroxypropyl)mercury	18832-83-2	Mercury(II) oxalate	3444-13-1
Bromoethylmercury	107-26-6	Mercury(II) potassium iodide	7783-33-7
Bromomethylmercury	506-83-2	Mercury, (2-ethylhexanoato-O)(1-methoxycyclohexyl)-	103332-13-4
Bromophenylmercury	1192-89-8	Mercury, (1-methoxycyclohexyl)(neodecanoato-O)-	103369-15-9
Chlormerodrin	62-37-3	Mercury, (1-methoxyethyl)(9-octadecenoato-O)-,	104325-07-7
Chloro(hydroxyphenyl)mercury	1320-80-5	Mercury, (1-methoxycyclohexyl)(9-octadecenoato-O)-,	104325-08-8
Chloro(o-hydroxyphenyl)mercury	90-03-9	Mercury, (1-methoxyethyl)(neodecanoato-O)-	104335-53-7
Chloro[p-[(2-hydroxy-1-naphthyl)azo]phenyl]mercury	3076-91-3	Mercury, (2-ethylhexanoato-O)(1-methoxyethyl)	104339-46-0
Chloro-2-thienylmercury	5857-39-6	Mercury, (2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxy-, disodium salt	129-16-8
Chloro-m-tolylmercury	5955-19-1	Mercury, (2-ethylhexanoato-O)phenyl-	13302-00-6
Chloro-o-tolylmercury	2777-37-9	Mercury, (9-octadecenoato-O)phenyl-, (Z)-	104-60-9
Cobaltate(2-), tetrakis(thiocyanato-N)-, mercury(2+) (1:1), (T-4)-	27685-51-4	Mercury, (acetato-O)(2-hydroxy-5-nitrophenyl)-	63468-53-1

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Substance	CAS number	Substance	CAS number
Cyclohexanebutanoic acid, mercury(2+) salt	62638-02-2	Mercury, (acetato-O)(4-aminophenyl)-	6283-24-5
Diammonium tetrachloromercurate	33445-15-7	Mercury, (acetato-O)[3-(chloromethoxy)propyl-C,O]-	5954-14-3
Diethylmercury	627-44-1	Mercury, (acetato-O)[4-[[4-(dimethylamino)phenyl]azo]phenyl]-	19447-62-2
Dihydrogen [orthoborato(3-)-O]phenylmercurate(2-)	102-98-7	Mercury, (acetato-O)diamminephenyl-, (T-4)-	68201-97-8
Diiodo(5-iodopyridin-2-amine-N1)mercury	93820-20-3	Mercury, (neodecanoato-O)phenyl-	26545-49-3
Dimercury amidatenitrate	1310-88-9	Mercury, [.mu.-[dodecylbutanedioato(2-)-O:O']]diphenyldi-	24806-32-4
Dimercury difluoride	13967-25-4	Mercury, [2,5-dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dionato(2-)-O1,O6]-	33770-60-4
Dimercury diiodide	15385-57-6	Mercury, bis(4-methylphenyl)-	537-64-4
Dimercury(I) oxalate	2949-11-3	Mercury, bis(acetato-O)(benzenamine)-	63549-47-3
Dimethyl[.mu.-[sulphato(2-)-O:O']]dimercury	3810-81-9	Mercury, bis(phenyldiazene-carbothioic acid 2-phenylhydrazidato-N2,S)-, (T-4)-	14783-59-6
Dimethylmercury	593-74-8	Mercury, chloro(2-hydroxy-5-nitrophenyl)-	24579-90-6
Di-o-tolylmercury	616-99-9	Mercury, chloro(4-hydroxyphenyl)-	623-07-4
Diphenyl[.mu.-[(tetrapropenyl)succinato(2-)-O:O']]dimercury	27236-65-3	Mercury, chloro(4-methylphenyl)-	539-43-5
Diphenylmercury	587-85-9	Mercury, chloro(ethanethiolato)-	1785-43-9
Disodium tetra(cyano-C)mercurate(2-)	15682-88-9	Mercury, chloro[2-(2-cyclohexen-1-yl)-3-benzofuranyl]-	90584-88-6
Disuccinimidomercury	584-43-0	Mercury, chloro[p-(2,4-dinitroanilino)phenyl]-	15785-93-0
Ethylmercury	2440-42-8	Mercury, compound with sodium (2:1)	12055-37-7

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Substance	CAS number	Substance	CAS number
Ethylmercuric chloride	107-27-7	Mercury, compound with sodium (4:1)	57363-77-6
Ethylmercuric phosphate	2235-25-8	Mercury, compound with titanium (1:3)	11083-41-3
Fluorescein mercuric acetate	3570-80-7	Mercury, dibutyl-	629-35-6
Hexanoic acid, 2-ethyl-, mercury(2+) salt	13170-76-8	Mercury, iodo(iodomethyl)-	141-51-5
Hydrargaphen	14235-86-0	Mercury, methyl(8-quinolinolato-N1,O8)-	86-85-1
Hydrogen [metasilicato(2-)-O](2-methoxyethyl)mercurate(1-)	64491-92-5	Mercury, phenyl(phenyldiazene-carbothioic acid 2-phenylhydrazidato)-	56724-82-4
Hydrogen .mu.-hydroxy[.mu.-[orthoborato(3-)-O:O']]diphenyldimercurate(1-)	94277-53-9	Mercury, phenyl(propanoato-O)-	103-27-5
Hydrogen [3-[(.alpha.-carboxylato-o-anisoyl)amino]-2-hydroxypropyl]hydroxymercurate(1-)	26552-50-1	Mercury, phenyl(trichloromethyl)-	3294-57-3
Iodomethylmercury	143-36-2	Mercurymethylchloride	115-09-3
Lactatophenylmercury	122-64-5	Mersalyl	492-18-2
Meralein sodium	4386-35-0	Mersalyl acid	486-67-9
Mercaptomerin sodium	21259-76-7	Methoxyethylmercuric acetate	151-38-2
Mercuderamide	525-30-4	Methyl mercury dicyandiamide	502-39-6
Mercurate(1-), (4-carboxylatophenyl)chloro-, hydrogen	59-85-8	Methyl(pentachlorophenolato)mercury	5902-76-1
Mercurate(1-), (4-carboxylatophenyl)hydroxy-, sodium	138-85-2	Methylmercury	22967-92-6
Mercurate(1-), triiodo-, hydrogen, compound with 3-methyl-2(3H)-benzothiazolimine (1:1)	72379-35-2	Methylmercury benzoate	3626-13-9
Mercurate(2-), tetrachloro-, dipotassium, (T-4)-	20582-71-2	Methylmercury hydroxide	1184-57-2
Mercurate(2-), tetraiodo-, (T-4)-, dihydrogen, compound with 5-iodo-2-pyridinamine (1:2)	63325-16-6	N-(Ethylmercuric)-p-toluenesulphonannilide	517-16-8
Mercurate(2-), tetraiodo-, dicopper(1+), (T-4)-	13876-85-2	Naphthenic acids, mercury salts	1336-96-5
Mercuric acetate	1600-27-7	Nitric acid, mercury(2+) salt, hemihydrate	13465-31-1
Mercuric arsenate	7784-37-4	Otimerate sodium	16509-11-8
Mercuric benzoate	583-15-3	Perchloric acid, mercury(2+) salt	7616-83-3

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Substance	CAS number	Substance	CAS number
Mercuric bromide	7789-47-1	Phenyl(quinolin-8-olato-N1,O8)mercury	14354-56-4
Mercuric chloride	7487-94-7	Phenyl(tribromomethyl)mercury	3294-60-8
Mercuric cyanide	592-04-1	Phenylmercuric acetate	62-38-4
Mercuric iodide	7774-29-0	Phenylmercuric hydroxide	100-57-2
Mercuric nitrate	10045-94-0	Phenylmercuric nitrate	55-68-5
Mercuric oxide	21908-53-2	Phenylmercury benzoate	94-43-9
Mercuric oxycyanide	1335-31-5	Phenylmercury chloride	100-56-1
Mercuric potassium cyanide	591-89-9	Phenylmercury dimethyldithiocarbamate	32407-99-1
Mercuric subsulfate	1312-03-4	Phenylmercury hydroxide--phenylmercury nitrate	8003-05-2
Mercuric sulfate	7783-35-9	Phenylmercury salicylate	28086-13-7
Mercuric thiocyanate	592-85-8	Phenylmercury stearate	104-59-6
Mercurbutol	498-73-7	Phosphoric acid, mercury salt	10451-12-4
Mercurous acetate	631-60-7	Potassium triiodomercurate(1-)	22330-18-3
Mercurous azide	38232-63-2	Sodium [3-[[[3-carboxylatopropionamido)carbonyl]amino]-2-methoxypropyl]hydroxymercurate(1-)	7620-30-6
Mercurous chloride	7546-30-7	Sodium 4-chloromercuriobenzoate	3198-04-07
Mercurous iodide	7783-30-4	Sodium o-(ethylmercurithio)benzoate	54-64-8
Mercurous nitrate	10415-75-5	Sodium timerfonate	5964-24-9
Mercurous oxide	15829-53-5	Tetrakis(acetato-O)[.mu.4-(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',4',5',7'-tetrayl)]tetramercury	54295-90-8
Mercurous sulfate	7783-36-0	Trimercury biscitrate	18211-85-3
Mercury	7439-97-6	Cadmium Mercury Sulfide	1345-09-1
Mercury (I) chromate	13465-34-4	Mercury, (2-mercaptoacetamidato-O,S)methyl	7548-26-7
Mercury (I) nitrate	14836-60-3	Mercury-difulminate	628-86-4

Table 4.5 Polybrominated Biphenyls – PBBs

Substance	CAS number	Substance	CAS number
[1,1'-Biphenyl]-ar,ar'-diol, tetrabromo-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]	68758-75-8	Tetrabromobiphenyl	40088-45-7
1,1'-Biphenyl, 2,2',3,4',5'-pentabromo-	73141-48-7	1,1'-Biphenyl, 2,4,4',6-tetrabromo-	64258-02-2
1,1'-Biphenyl, 2,2',3,4,6-pentabromo-	77910-04-4	1,1'-Biphenyl, 2,4',5-tribromo-	59080-36-3
1,1'-Biphenyl, 2,2',3,5',6-pentabromo-	88700-05-4	1,1'-Biphenyl, 2,4,6-tribromo-	59080-33-0
1,1'-Biphenyl, 2,2',4,4',5-pentabromo-	81397-99-1	1,1'-Biphenyl, 2,4',6-tribromo-	64258-03-3
1,1'-Biphenyl, 2,2',4,4',6-pentabromo-	97038-97-6	1,1'-Biphenyl, 2,4'-dibromo-	49602-91-7
1,1'-Biphenyl, 2,2',4,4'-tetrabromo-	66115-57-9	1,1'-Biphenyl, 2,4-dibromo-	53592-10-2
Hexabromobiphenyl	59080-40-9	1,1'-Biphenyl, 2,5-dibromo-	57422-77-2
1,1'-Biphenyl, 2,2',4,5,5'-pentabromo-	67888-96-4	1,1'-Biphenyl, 2,6-dibromo-	59080-32-9
1,1'-Biphenyl, 2,2',4,5',6-pentabromo-	59080-39-6	1,1'-Biphenyl, 3,3',4,4'-tetrabromo-	77102-82-0
Dibromobiphenyl	92-86-4	Heptabromobiphenyl	6355-01-8
1,1'-Biphenyl, 2,2',4,5,6'-pentabromo-	80274-92-6	1,1'-Biphenyl, 3,3',4,5'-tetrabromo-	97038-98-7
1,1'-Biphenyl, 2,2',4,5'-tetrabromo-	60044-24-8	1,1'-Biphenyl, 3,3',5,5'-tetrabromo-	16400-50-3
1,1'-Biphenyl, 2,2',4,6,6'-pentabromo-	97063-75-7	1,1'-Biphenyl, 3,3'-dibromo-	16400-51-4
1,1'-Biphenyl, 2,2',4,6'-tetrabromo-	97038-95-4	1,1'-Biphenyl, 3,4,4',5-tetrabromo-	59589-92-3
1,1'-Biphenyl, 2,2',5,5'-tetrabromo-	59080-37-4	1,1'-Biphenyl, 3,4'-dibromo-	57186-90-0
1,1'-Biphenyl, 2,2',5,6'-tetrabromo-	60044-25-9	1,1'-Biphenyl, 3,4-dibromo-	60108-72-7
1,1'-Biphenyl, 2,2',5-tribromo-	59080-34-1	Dibromobiphenyl Ether	2050-47-7
1,1'-Biphenyl, 2,2',6,6'-tetrabromo-	97038-96-5	2,2',3,3',5,5',6,6'-Octabromo-4-phenoxy-1,1'-biphenyl	83929-69-5

Substance	CAS number	Substance	CAS number
1,1'-Biphenyl, 2,2'-dibromo-	13029-09-9	4,4',6,6'-Tetrabromo[1,1'-biphenyl]-2,2'-diol	14957-65-4
1,1'-Biphenyl, 2,3,4,4',5-pentabromo-	96551-70-1	Decabromobiphenyl	13654-09-6
1,1'-Biphenyl, 2',3,4,4',5-pentabromo-	74114-77-5	Polybrominated Biphenyl	59536-65-1
1,1'-Biphenyl, 2,3',4,4'-tetrabromo-	84303-45-7	Nonabromobiphenyl	27753-52-2
1,1'-Biphenyl, 2,3,4,5,6-pentabromo-	38421-62-4	Hexabromobiphenyl	36355-01-8
1,1'-Biphenyl, 2,3',4',5-tetrabromo-	59080-38-5	Octabromobiphenyl	27858-07-7
Tribromobiphenyl	51202-79-0	Octabromobiphenyl	61288-13-9
Pentabromobiphenyl	56307-79-0	Bromobiphenyl	2052-07-5, 2113-57-7, 92-66-0

Table 4.6 Polybrominated Diphenyl – PBDEs

Material	CAS number	Material	CAS number
Decabromodiphenyl ether ('Deca'; Decabromodiphenyl oxide) (Benzene, 1,1'-oxybis[2,3,4,5,6-pentabromo-])	1163-19-5	Hexabromodiphenyl ether	36483-60-0
Octabromodiphenyl ether ('Octa') (Benzene, 1,1'-oxybis-, octabromo deriv.)	32536-52-0	Heptabromodiphenyl ether	68928-80-3
Pentabromodiphenyl ether ('Penta') (Benzene, 1,1'-oxybis-, pentabromo deriv.)	32534-81-9	Tetrabromodiphenyl ether	40088-47-9
Pentabromodiphenyl ether ('Penta') (Benzene, 1,1'-oxybis-, pentabromo deriv.)	32534-81-9	Tribromobiphenyl Ether	49690-94-0
Nonabromobiphenyl Ether	63936-56-1	Diphenylether, pentabromo derivative C ₁₂ H ₅ Br ₅ O	32534-81-9
2,2',3,4,4',5'-Hexabromodiphenyl ether	182677-30-1	2,3',4,4',6-Pentabromodiphenyl ether	189084-66-0
2,2',3,4,4'-Pentabromodiphenyl ether	182346-21-0	2,4,4',6-Tetrabromodiphenyl ether	189084-63-7
1,3-dibromo-2-(3,4-dibromophenoxy)benzene	189084-62-6	2,3',4,4'-Tetrabromodiphenyl ether	189084-61-5
Benzene, 1,1'-oxybis[3,4-	93703-48-1		

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Table 4.7 Arsenic and compounds

Substance	CAS number	Substance	CAS number
Diarsenic pentoxide	1303-28-2	Copper arsenate	29871-13-4
Diarsenic trioxide	1327-53-3	Copper arsenate hydroxide (Cu ₂ (AsO ₄)(OH))	12774-48-0
Cadmium arsenide (Cd ₃ As ₂)	12006-15-4	Copper arsenide (Cu ₃ As)	12005-75-3
Chromium arsenide (Cr ₂ As)	12254-85-2	Copper arsenite	10290-12-7
Lead arsenate	3687-31-8	Copper arsenite	33382-64-8
Lead arsenate	7784-40-9	Copper diarsenite	16509-22-1
Lead arsenate (Pb ₃ (AsO ₄) ₂)	10102-48-4	Diarsenic acid	13453-15-1
Lead arsenate, unspecified	7645-25-2	Diphenyldiarsenic acid	4519-32-8
Lead arsenite	10031-13-7	Disodium hydrogen arsenate (Arsenic acid (H ₃ AsO ₄), disodium salt, heptahydrate)	10048-95-0
Mercuric arsenate	7784-37-4	Disodium hydrogen arsenate (Arsenic acid (H ₃ AsO ₄), sodium salt (1:2))	7778-43-0
2,6-Dimethyl-4-(1-naphthyl)pyrylium hexafluoroarsenate	84282-36-0	Dysprosium arsenide (DyAs)	12005-81-1
2,6-Dimethyl-4-phenylpyrylium hexafluoroarsenate	84304-15-4	Erbium arsenide (ErAs)	12254-88-5
4-Cyclohexyl-2,6-dimethylpyrylium hexafluoroarsenate	84304-16-5	Europium arsenide (EuAs)	32775-46-5
6,6'-Dihydroxy-3,3'-diarsene-1,2-diyl dianilinium dichloride	139-93-5	Ferric arsenate	10102-49-5
Aluminum arsenide (AlAs)	22831-42-1	Ferric arsenite	63989-69-5
Aluminum gallium arsenide ((Al,Ga)As)	37382-15-3	Ferrous arsenate	10102-50-8
Ammonium arsenate	7784-44-3	Gadolinium arsenide (GdAs)	12005-89-9
Ammonium-magnesium-arsenat	14644-70-3	Gallium arsenide	1303-00-0
Antimony arsenate	28980-47-4	Gallium arsenide phosphide	106097-61-4
Antimony arsenic oxide	64475-90-7	Digallium arsenide phosphide	12044-20-1
Antimony arsenide (Sb ₃ As)	12255-36-6	Gallium zinc triarsenide	98106-56-0

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Substance	CAS number	Substance	CAS number
Antimony oxide (Sb ₂ O ₃), mixed with arsenic oxide (As ₂ O ₃)	68951-38-2	Germanium arsenide (GeAs)	12271-72-6
Arsenargentite (Ag ₃ As)	12417-99-1	Holmium arsenide (HoAs)	12005-92-4
Arsenate(1-), hexafluoro-, hydrogen	17068-85-8	Indium arsenide (InAs)	1303-11-3
Arsenate(1-), hexafluoro-, lithium	29935-35-1	Iodonium, diphenyl-, hexafluoroarsenate(1-)	62613-15-4
Arsenate(1-), hexafluoro-, potassium	17029-22-0	Iron arsenide (Fe ₂ As)	12005-88-8
Arsenate, dimethyl, sodium	6131-99-3	Iron arsenide (FeAs)	12044-16-5
Arsenous acid, lithium salt	72845-34-2	Iron arsenide (FeAs ₂)	12006-21-2
Arsenic acid	1327-52-2	Lanthanum arsenide (LaAs)	12255-04-8
Arsenic acid	7778-39-4	Lithium arsenide (Li ₃ As)	12044-22-3
Arsenic acid (H ₃ AsO ₄), ammonium copper(2+) salt (1:1:1)	32680-29-8	Lutetium arsenide (LuAs)	12005-94-6
Arsenic acid (H ₃ AsO ₄), barium salt (2:3)	13477-04-8	Magnesium arsenate	10103-50-1
Arsenic acid (H ₃ AsO ₄), bismuth salt (1:1)	13702-38-0	Magnesium arsenide (Mg ₃ As ₂)	12044-49-4
Arsenic acid (H ₃ AsO ₄), cobalt(2+) salt (2:3)	24719-19-5	Manganese arsenide (Mn ₂ As)	12005-96-8
Arsenic acid (H ₃ AsO ₄), copper salt	10103-61-4	Manganese arsenide (MnAs)	12005-95-7
Arsenic acid (H ₃ AsO ₄), copper(2+) salt (2:3)	7778-41-8	Manganese hydrogenarsenate	7784-38-5
Arsenic acid (H ₃ AsO ₄), dipotassium salt	21093-83-4	Metaarsenic acid	10102-53-1
Arsenic acid (H ₃ AsO ₄), magnesium salt, manganese-doped	102110-21-4	Methylum, triphenyl-, hexafluoroarsenate(1-)	437-15-0
Arsenic acid (H ₃ AsO ₄), monoammonium salt	13462-93-6	N-(p-Arsenosophenyl)-1,3,5-triazine-2,4,6-triamine	21840-08-4
Arsenic acid (H ₃ AsO ₄), strontium salt (2:3)	13464-68-1	Neodymium arsenide (NdAs)	12255-09-3
Arsenic acid (H ₃ AsO ₄), trilithium salt	13478-14-3	Nickel arsenide (NiAs)	27016-75-7
Arsenic acid (H ₃ AsO ₄), trisilver(1+) salt	13510-44-6	Nickel diarsenide	12068-61-0
Arsenic acid, lead (4+) salt	53404-12-9	Niobium arsenide (NbAs)	12255-08-2
Arsenic acid, trisodium salt	13464-38-5	Platinum arsenide (PtAs ₂)	12044-52-9
Arsenic bromide	64973-06-4	Potassium arsenate	7784-41-0

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Substance	CAS number	Substance	CAS number
Arsenic bromide	7784-33-0	Potassium arsenide (K3As)	12044-21-2
Arsenic chloride	37226-49-6	Potassium arsenite	10124-50-2
Arsino thioxo	12044-79-0	Potassium arsenite	13464-35-2
Arsenic sulfide (AsS2)	56320-22-0	Praseodymium arsenide (PrAs)	12044-28-9
Arsenic selenide (As2Se3)	1303-36-2	Rammelsbergite (NiAs2)	1303-22-6
Arsenic sulfide	12612-21-4	Samarium arsenide (SmAs)	12255-39-9
Arsenic sulfide (As2S4)	12344-68-2	Silicic acid (H4SiO4), tetraethyl ester, polymer with arsenic oxide(As2O3)	68957-75-5
Arsenic telluride (As2Te3)	12044-54-1	Silicon(1+), tris(2,4-pentanedionato-O,O')-, (OC-6-11)-, hexafluoroarsenate(1-)	67251-38-1
Arsenic trichloride	60646-36-8	Silver arsenide (Ag2As)	70333-07-2
Arsenic trisulfide	1303-33-9	Sodium arsenate	7631-89-2
Arsenic, elemental	7440-38-2	Sodium arsenide (Na3As)	12044-25-6
Arsenopyrite, cobaltoan	12414-94-7	Sodium arsenite	7784-46-5
Arsenous acid, trisodium salt	13464-37-4	Sodium metaarsenate	15120-17-9
Arsenous trichloride	7784-34-1	Strontium arsenide (Sr3As2)	39297-24-0
Arsenous trifluoride	7784-35-2	Strontium arsenite	15195-06-9
Arsenous triiodide	7784-45-4	Strontium arsenite	91724-16-2
Barium arsenide (Ba3As2)	12255-50-4	Strychnidin-10-one, arsenite (1:1)	100258-44-4
Benzenediazonium, 3-methyl-4-(1-pyrrolidinyl)-, hexafluoroarsenate(1-)	27569-09-1	Strychnine arsenate	10476-82-1
Benzenediazonium, 4-(diethylamino)-2-ethoxy-, hexafluoroarsenate(1-)	63217-33-4	Sulfonium, triphenyl-, hexafluoroarsenate(1-)	57900-42-2
Benzenediazonium, 4-(ethylamino)-2-methyl-, hexafluoroarsenate(1-)	63217-32-3	Terbium arsenide (TbAs)	12006-08-5
Benzenesulfonic acid, 4-arsenoso-	71130-51-3	Thallium arsenide (TIAs)	12006-09-6
Benzenesulfonic acid, 4-arsenoso-, sodium salt	71130-50-2	Thallium triarsenide	84057-85-2
Boron(1+), bis(2,4-pentanedionato-O,O')-, (T-4)-, hexafluoroarsenate(1-)	68892-01-3	Thulium arsenide (TmAs)	12006-10-9
Calcium arsenate	10103-62-5	Triammonium arsenate	24719-13-9
Calcium arsenate	7778-44-1	Triethyl arsenate	15606-95-8
Calcium arsenide (Ca3As2)	12255-53-7	Triethyl arsenite	453607
Calcium arsenite	52740-16-6	Trimanganese arsenide	61219-26-9

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Substance	CAS number	Substance	CAS number
Calcium arsenite (2:1)	15194-98-6	Trinickel bis(arsenate)	13477-70-8
Calcium arsenite (2:3)	27152-57-4	Tris[(8a)-6'-methoxycinchonan-9(R)-ol] arsenite	94138-87-1
Cobalt arsenide (CoAs)	27016-73-5	Tris[(8a,9R)-6'-methoxycinchonan-9-ol] bis(arsenate)	549-59-7
Cobalt arsenide (CoAs ₂)	12044-42-7	Vanadium(4+) diarsenate (1:1)	99035-51-5
Cobalt arsenide (CoAs ₃)	12256-04-1	Ytterbium arsenide (YbAs)	12006-12-1
Copper acetoarsenite	12002-03-8	Yttrium arsenide (YAs)	12255-48-0
Zirconium arsenide (ZrAs)	60909-47-9	Zinc arsenenate oxide (Zn ₅ (AsO ₃) ₄ O ₃), tetrahydrate	1303-39-5
Arsorous acid	13464-58-9	Arsenic acid (H ₃ AsO ₄), zinc salt (2:3)	13464-44-3
Arsin	7784-42-1	Zinc arsenide (Zn ₃ As ₂)	12006-40-5
Diphenoxarsin-10-yloxid	58-36-6	Zinc arsenide (ZnAs ₂)	12044-55-2
Trisilverarsenite	2149310	Zinc arsenite	10326-24-6

Table 4.8 Asbestos, Asbestos compounds

Substance	CAS number	Substance	CAS number
Asbestos, actinolite	77536-66-4	Asbestos	1332-21-4
Asbestos, amosite	12172-73-5	Actinolite	13768-00-8
Asbestos, anthophyllite	77536-67-5	Tremolite	14567-73-8
Asbestos, chrysotile	12001-29-5	Anthophyllite	17068-78-9
Asbestos, crocidolite	12001-28-4	Actinolite	12172-67-7
Asbestos, Tremolite	77536-68-6		

Table 4.9 Azo colorants

Substance	CAS number	Substance	CAS number
4-Aminobiphenyl	92-67-1	4,4'-Methylenebis(2-chloroaniline (MOCA)	101-14-4
Benzidine	92-87-5	4,4'-Oxydianiline	101-80-4
4-Chloro-o-toluidine	95-69-2	4,4'-Thiodianiline	139-65-1
2-Naphthylamine	91-59-8	o-Toluidine	95-53-4
o-Aminoazotoluene	97-56-3	4-Methyl-m-phenylenediamine	95-80-7
5-Nitro-o-toluidine	99-55-8	2,4,5-Trimethylaniline	137-17-7
p-Chloroaniline	106-47-8	o-anisidine	90-04-0
4-Methoxy-m-phenylenediamine	615-05-4	4-amino azobenzene	60-09-3
4,4'-Methylenedianiline	101-77-9	3,3'-dimethylbenzidine	119-93-7

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Substance	CAS number	Substance	CAS number
3,3'-Dichlorobenzidine	91-94-1	Pigment Red 8	6410-30-6
3,3'-Dimethoxybenzidine	119-90-4	Pigment Red 22	6448-95-9
4,4'-Methylenedi-o-toluidine	838-88-0	Pigment Red 38	6358-87-8
6-Methoxy-m-toluidine	120-71-8		

Table 4.10 Benzidine-Based Dyes

Substance	CAS number	Substance	CAS number
1,3-Naphthalenedi-sulfonic acid, 7-hydroxy-8-[2-[4'-[2-(4-hydroxyphenyl)diazenyl][1,1'-biphenyl]-4-yl]diazenyl]-	117-33-9	Benzoic acid, 5-[[4'-[(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt (C.I. Direct Brown 2)	2429-82-5
1,3,6-Naphthalenetri-sulfonic acid, 8-hydroxy-7-[2-[4'-[2-(2-hydroxy-1-naphthalenyl)diazenyl][1,1'-biphenyl]-4-yl]diazenyl]-, lithium salt (1:3)	65150-87-0	2,7-Naphthalenedisulfonic acid, 4-amino-3-[[4'-[(2,4-diamino-5-methylphenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)-, disodium salt (Direct Black 4)	2429-83-6
2,7-Naphthalenedi-sulfonic acid, 5-amino-3-[2-[4'-[2-(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)diazenyl][1,1'-biphenyl]-4-yl]diazenyl]-4-hydroxy-, sodium salt (1:2)	68214-82-4	Benzoic acid, 5-[[4'-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt (C.I. Direct Red 1)	2429-84-7
2,7-Naphthalenedi-sulfonic acid, 4-amino-5-hydroxy-3-[2-[4'-[2-(2-hydroxy-4-[(2-methylphenyl)amino]phenyl)diazenyl][1,1'-biphenyl]-4-yl]diazenyl]-6-(2-phenyldiazenyl)-	72379-45-4	Benzoic acid, 5-[[4'-[[2,6-diamino-3-methyl-5-[(4-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt (C.I. Direct Brown 1:2)	2586-58-5
2,7-Naphthalenedi-sulfonic acid, 4-amino-5-hydroxy [[[substituted phenylamino]] substituted phenylazo] diphenyl]azo-, phenylazo-, disodium salt.	Accession No. 21808 CAS No. CBI (NA)	2,7-Naphthalenedisulfonic acid, 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt (C.I. Direct Blue 6]	2602-46-2

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Substance	CAS number	Substance	CAS number
4-(Substituted naphthalenyl)azo diphenyl azo-substituted carbopolycycle azo benzene-sulfonic acid, sodium salt	Accession No. 24921 CAS No. CBI (NA)	Benzoic acid, 5-[[4'-[[2,4-dihydroxy-3-[(4-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt (C.I. Direct Brown 6)	2893-80-3
4-(Substituted phenyl)azo biphenyl azo-substituted carbopolycycloazo benzene-sulfonic acid, sodium salt	Accession No. 26256 CAS No. CBI (NA)	1,3-Naphthalenedisulfonic acid, 8-[[4'-[(4-ethoxyphenyl)azo][1,1'-biphenyl]-4-yl]azo]-7-hydroxy-, disodium salt (C.I. Direct Red 37)	3530-19-6
4-(Substituted phenyl)azo biphenyl azo—substituted carbo-polycycle azo benzene-sulfonic acid, sodium salt	Accession No. 26267 CAS No. CBI (NA)	1,3-Naphthalenedisulfonic acid, 7-hydroxy-8-[[4'-[[4-[(4-methylphenyl)sulfonyl]oxy]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-, disodium salt (C.I. Acid Red 85)	3567-65-5
Phenylazoamino-hydroxynaphthalenylazobiphenylazo substituted benzene sodium sulfonate	Accession No. 26701 CAS No. CBI (NA)	2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[[4'-[(4-hydroxyphenyl)azo][1,1'-biphenyl]-4-yl]azo]-6-(phenylazo)-, disodium salt (C.I. Direct Green 1)	3626-28-6
[1,1'-Biphenyl]-4,4'-diamine	92-87-5	Benzoic acid, 5-[[4'-[[2,4-diamino-5-[(4-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt (C.I. Direct Brown 1)	3811-71-0
[1,1'-Biphenyl]-4,4'-diamine, dihydrochloride	531-85-1	2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-6-[[4'-[(4-hydroxyphenyl)azo][1,1'-biphenyl]-4-yl]azo]-3-[(4-nitrophenyl)azo]-, disodium salt (C.I. Direct Green 6)	889614
1-Naphthalenesulfonic acid, 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[4-amino-, disodium salt (C.I. Direct Red 28)	573-58-0	2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[[4'-[[4-hydroxy-2-[(2-methylphenyl)amino]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-6-[(4-sulfophenyl)azo]-, trisodium salt (C.I. Acid Black 94)	6358-80-1

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Substance	CAS number	Substance	CAS number
2,7-Naphthalenedisulfonic acid, 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)-, disodium salt (C.I. Direct Black 38)	1937-37-7	Benzoic acid, 5-[[4'-[[4-[(4-amino-7-sulfo-1-naphthalenyl)azo]-6-sulfo-1-naphthalenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, trisodium salt (C.I. Direct Brown 27)	6360-29-8
1-Naphthalenesulfonic acid, 8,8'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[7-hydroxy-, disodium salt (C.I. Direct Red 44)	2302-97-8	Benzoic acid, 5-[[4'-[[2,6-diamino-3-methyl-5-[(4-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-3-methyl-, disodium salt (C.I. Direct Brown 154)	6360-54-9
2,7-Naphthalenedisulfonic acid, 5-amino-3-[[4'-[(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-4-hydroxy-, trisodium salt (C.I. Direct Blue 2)	2429-73-4	Benzoic acid, 3,3'-[(3,7-disulfo-1,5-naphthalenediyl)bis[azo(6-hydroxy-3,1-phenylene)azo[6(or7)-sulfo-4,1-naphthalenediyl]azo][1,1'-biphenyl]-4,4'-diylazo]]bis[6-hydroxy-, hexasodium salt (C.I. Direct Brown 74)	8014-91-3
Benzoic acid, 5-[[4'-[(1-amino-4-sulfo-2-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt (C.I. Direct Orange 8)	2429-79-0	Cuprate(2-), [5-[[4'-[[2,6-dihydroxy-3-[(2-hydroxy-5-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxybenzoato(4-)-], disodium salt (C.I. Direct Brown 95)	16071-86-6
Benzoic acid, 5-[[4'-[[2,6-diamino-3-[[8-hydroxy-3,6-disulfo-7-[(4-sulfo-1-naphthalenyl)azo]-2-naphthalenyl]azo]-5-methylphenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, tetrasodium salt (C.I. Direct Brown 31)	2429-81-4		

Table 4.11 Halogenated aromatic substances

Substance	CAS number	Substance	CAS number
Monomethyltetrachlorodiphenylmethane (Trade name: Ugilec 141)	76253-60-6	Dichlorobenzene, 1,4- (para-DCB)	106-46-7

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Monomethyldichlorodiphenylmethane (Trade name: Ugilec 121)	81161-70-8	Pentachlorobenzene	608-93-5
Monomethyldibromodiphenylmethane (Trade name: DBBT)	99688-47-8	Tetrachlorobenzene, 1, 2, 4, 5-	95-94-3
Chlorobenzene (Monochlorobenzene, MCB)	108-90-7	Tetrachlorobenzene, 1, 2, 3, 5-	634-90-2
Dichlorobenzene, 1,2- (ortho-DCB)	95-50-1	Tetrachlorobenzene, 1, 2, 3, 4-	634-66-2

Table 4.12 Nickel/Nickel compounds

Substance	CAS number	Substance	CAS number
Nickel	7440-02-0	Nickel oxide (NiO ₂)	12035-36-8
(2-Ethylhexanoato-O)(isodecanoato-O)nickel	84852-39-1	Nickel perchlorate	13637-71-3
(2-Ethylhexanoato-O)(isononanoato-O)nickel	85508-45-8	Nickel phosphide (Ni ₂ P)	12035-64-2
(2-Ethylhexanoato-O)(isooctanoato-O)nickel	84852-38-0	Nickel potassium cyanide	14220-17-8
(2-Ethylhexanoato-O)(neodecanoato-O)nickel	85135-77-9	Nickel selenate	15060-62-5
(Isodecanoato-O)(isononanoato-O)nickel	84852-36-8	Nickel selenide	1314-05-2
(Isodecanoato-O)(isooctanoato-O)nickel	85166-19-4	Nickel silicide (Ni ₂ Si)	12059-14-2
(Isodecanoato-O)(neodecanoato-O)nickel	85508-42-5	Nickel silicide (NiSi)	12035-57-3
(Isononanoato-O)(isooctanoato-O)nickel	85508-46-9	Nickel silicide (NiSi ₂)	12201-89-7
(Isononanoato-O)(neodecanoato-O)nickel	85551-28-6	Nickel subsulfide	12035-72-2
(Isooctanoato-O)(neodecanoato-O)nickel	84852-35-7	Nickel sulfate	7786-81-4
(Neononanoato-O)(neoundecanoato-O)nickel	93920-08-2	Nickel sulfide (Ni ₂ S ₃)	12259-56-2
[.mu.-[[1,1',1'',1'''-[Benzene-1,2,4,5-tetrayltetrakis(nitromethylidyne)]naphth-2-olato](4-)]dinickel	22484-07-7	Nickel sulfide (NiS)	16812-54-7
[.mu.-[Carbonato(2-)-O:O']]dihydroxydinickel	65405-96-1	Nickel telluride	12142-88-0

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Substance	CAS number	Substance	CAS number
[[2,2'-(4,8-Dichlorobenzo[1,2-d:4,5-d']bisoxazole-2,6-diyl)bis[4,6-dichlorophenolato]](2-)]nickel	47726-62-5	Nickel tin trioxide	12035-38-0
[[2,2'-Thiobis[3-octylphenolato]](2-O,O',S)]nickel	33882-09-6	Nickel titanium oxide	12035-39-1
[[N,N',N'',N'''-[29H,31H-Phthalocyaninetetrayltetrakis(sulphonylimino-3,1-phenylene)]tetrakis[3-oxobutyramidato]](2-N29,N30,N31,N32)]nickel	97404-22-3	Nickel titanium oxide	12653-76-8
[[N,N',N''-[29H,31H-Phthalocyaninetriyltris(sulphonylimino-3,1-phenylene)]tris[3-oxobutyramidato]](2-N29,N30,N31,N32)]nickel	97404-21-2	Nickel titanium tungsten oxide (NiTi20W2047)	69011-05-8
[2,3'-Bis[[2-hydroxyphenyl)methylene]amino]but-2-enedinitrilato(2-N2,N3,O2,O3)]nickel	64696-98-6	Nickel tungsten oxide (NiWO4)	14177-51-6
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ammonium nickel(2+) salt (2:2:1)	68025-13-8	Nickel uranium oxide (NiU3O10)	15780-33-3
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, nickel(2+) salt (2:3)	6018-92-4	Nickel uranyl tetraacetate, of uranium depleted in uranium-235	71767-12-9
1,2,3-Propanetriol, 1-(dihydrogen phosphate), nickel(2+) salt (1:1)	68391-37-7	Nickel vanadium oxide (NiV2O6)	52502-12-2
1,2,3-Propanetriol, mono(dihydrogen phosphate), nickel(2+) salt (1:1)	67952-69-6	Nickel zirconium oxide (NiZrO3)	70692-93-2
1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, nickel(2+) salt (1:1)	18824-79-8	Nickel(1+), [1-(2-amino-4-imino-5(4H)-thiazolylidene)-N-[1-(2-amino-4-imino-5(4H)-thiazolylidene)-1H-isoindol-3-yl]-1H-isoindol-3-aminato]-, chloride	53199-85-2
2,7-Naphthalenedisulfonic acid, nickel(2+) salt (1:1)	72319-19-8	Nickel(2+) acrylate	60700-37-0
2-Ethylhexanoic acid, nickel salt	7580-31-6	Nickel(2+) hydrogen citrate	18721-51-2

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Substance	CAS number	Substance	CAS number
Acetic acid, nickel(2+) salt, polymer with formaldehyde and 4-(1,1,3,3-tetramethylbutyl)phenol	71050-57-2	Nickel(2+) methacrylate	52496-91-0
Aluminum boron cobalt lithium nickel oxide	207803-51-8	Nickel(2+) neodecanoate	85508-44-7
Aluminum cobalt lithium nickel oxide	193214-24-3	Nickel(2+) neononanoate	93920-10-6
Aluminum nickel oxide (Al ₂ NiO ₄)	12004-35-2	Nickel(2+) neoundecanoate	93920-09-3
Aluminum, compound with nickel (1:1)	12003-78-0	Nickel(2+) oleate	13001-15-5
Aluminum, triethyl-, reaction products with nickel(2+) bis(2-ethylhexanoate)	79357-65-6	Nickel(2+) palmitate	13654-40-5
Antimony oxide (Sb ₂ O ₃), solid solution with nickel oxide (NiO) and titanium oxide (TiO ₂)	73892-02-1	Nickel(2+) selenite	10101-96-9
Antimony, compound with nickel (1:1)	12035-52-8	Nickel(2+) silicate	21784-78-1
Antimony, compound with nickel (1:3)	12503-49-0	Nickel(2+) sulphite	7757-95-1
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	55868-93-4	Nickel(2+) trifluoroacetate	16083-14-0
Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	52625-25-9	Nickel(2+), bis(1,2-ethanediamine-N,N')-, bis[bis(cyano-C)aurate(1-)]	68958-89-4
Bis(1,1,1,5,5,5-hexafluoropentane-2,4-dionato-O,O')nickel	14949-69-0	Nickel(2+), bis(1,2-ethanediamine-N,N')-, salt with dimethylbenzenesulfonic acid (1:2)	71215-98-0
Bis(1,5-cyclooctadiene)nickel	1295-35-8	Nickel(2+), bis(1,2-propanediamine)-, bis[dicyanoaurate(1-)]	18972-69-5
Bis(1H-1,2,4-triazole-3-sulphonato-N ₂ ,O ₃)nickel	85586-46-5	Nickel(2+), bis(ethylenediamine)-, sulfate (1:1)	21264-77-7
Bis(1-nitroso-2-naphtholato)nickel	12794-26-2	Nickel(2+), hexaammine-, (OC-6-11)-, diformate	68758-60-1

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Substance	CAS number	Substance	CAS number
Bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')(2,2,4,4-tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]hencosan-21-one-O21)nickel	79121-51-0	Nickel(2+), hexakis(1H-imidazole-N3)-, (OC-6-11)-, 1,2-benzenedicarboxylate (1:1)	108818-89-9
Bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')nickel	69524-96-5	Nickel(2+), tris(1,2-ethanediamine-N,N')-, (OC-6-11)-, salt with dimethylbenzenesulfonic acid (1:2)	71215-97-9
Bis(5-oxo-DL-prolinato-N1,O2)nickel	85026-81-9	Nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, bis[tetrafluoroborate(1-)]	68309-97-7
Bis(5-oxo-L-prolinato-N1,O2)nickel	70824-02-1	Nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, dinitrate	38780-90-4
Bis(butanedione dioximato)nickel	13478-93-8	Nickel(2++), hexaammine-, (OC-6-11)-, carbonate (1:1)	67806-76-2
Bis(D-gluconato-O1,O2)nickel	71957-07-8	Nickel(2++), hexaammine-, dihydroxide, (OC-6-11)-	51467-07-3
Bis(diethyldithiocarbamato-S,S')nickel	52610-81-8	Nickel(II) acetate	373-02-4
Bis(quinolin-8-olato-N1,O8)nickel	14100-15-3	Nickel(II) chloride	7718-54-9
Bis[(2-hydroxyethyl)dithiocarbamato-S,S']nickel	52486-98-3	Nickel(II) chloride hexahydrate (1:2:6)	7791-20-0
Bis[2-hydroxy-4-(octyloxy)benzophenonato]nickel	15843-91-1	Nickel(II) fluoborate	14708-14-6
Bis[bis(2-hydroxyethyl)dithiocarbamato-S,S']nickel	52486-99-4	Nickel(II) fluosilicate	26043-11-8
Bis[di(3,5,5-trimethylhexyl)dithiocarbamato-S,S']nickel	84604-95-5	Nickel(II) fumarate	6283-67-6
Bis[N-(2,4-dimethoxyphenyl)-2,3-bis(hydroxyimino)butyramidato-N2,N3]nickel	85269-39-2	Nickel(II) iodide	13462-90-3
Bis[N-(2-hydroxyethyl)-N-methylglycinato-N,O,on]nickel	76625-10-0	Nickel(II) isodecanoate	85508-43-6
Bismuth, compound with nickel (1:1)	12688-64-1	Nickel(II) isooctanoate	29317-63-3

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Substance	CAS number	Substance	CAS number
Butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, nickel(2+) salt (2:1)	67952-41-4	Nickel(II) nitrate, hexahydrate (1:2:6)	13478-00-7
Cobalt lithium manganese nickel oxide	182442-95-1/346417-97-8	Nickel(II) sulfate hexahydrate (1:1:6)	10101-97-0
Carbonic acid, nickel salt	16337-84-1	Nickel, (2-ethylhexanoato-O)(trifluoroacetato-O)-	70776-98-6
Carbonic acid, nickel(2+) salt (2:1)	17237-93-3	Nickel, (2-propanol)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-O,O',S)-	67763-27-3
Cassiterite, cobalt manganese nickel grey	99749-23-2	Nickel, (carbonato(2-))tetrahydroxytri-, tetrahydrate	39430-27-8
Chromic acid (H ₂ Cr ₂ O ₇), nickel(2+) salt (1:1)	15586-38-6	Nickel, [(2-amino-2-oxoethoxy)acetato(2-)]-	68133-84-6
Chromium nickel oxide (Cr ₂ NiO ₄)	12018-18-7	Nickel, [.mu.-(piperazine-N1:N4)]bis[3-[1-[(4,5,6,7-tetrachloro-1-oxo-1H-isindol-3-yl)hydrazono]ethyl]-2,4(1H,3H)-quinolinedionato(2-)]di-	71889-22-0
Chloric acid, nickel(2+) salt	67952-43-6	Nickel, [[1,1'-[1,2-phenylenebis(nitrilomethylidyne)]bis[2-naphthalenolato]](2-N,N',O,O')-, (SP-4-2)-	20437-10-9
Citric acid , ammonium nickel salt	18283-82-4	Nickel, [[2,2'-[methylenebis(thio)]bis[acetato]](2-)]-	71215-73-1
Citric acid, nickel salt	22605-92-1	Nickel, [[2,2'-sulfonylbis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-O1,O1',O2)]-	16432-37-4
Cobalt molybdenum nickel oxide (CoMo ₂ NiO ₈)	68016-03-5	Nickel, [[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-O,O',S)-	27574-34-1
Cobalt nickel oxide (CoNiO ₂)	58591-45-0	Nickel, [1,3-dihydro-5,6-bis[[2-hydroxy-1-naphthalenyl)methylene]amino]-2H-benzimidazol-2-onato(2-N5,N6,O5,O6)-, (SP-4-2)-	42844-93-9
Cobalt(2+) dinickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	94232-44-7	Nickel, [29H,31H-phthalocyaninato(2-N29,N30,N31,N32)-, (SP-4-1)-	14055-02-8

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Substance	CAS number	Substance	CAS number
Copper(2+), bis(1,2-ethanediamine-N,N')-, (SP-4-1)-tetrakis(cyano-C)nickelate(2-) (1:1)	63427-32-7	Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonyl sulfo derivatives, sodium salts	90459-35-1
Copper, compound with lanthanum and nickel (4:1:1)	51912-52-8	Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorosulfonyl derivatives, reaction products with 2-[(4-aminophenyl)sulfonyl]ethyl hydrogen sulfate monosodium salt, potassium sodium salts, compounds with pyridine	93573-17-2
Cyclohexanebutanoic acid, nickel(2+) salt	3906-55-6	Nickel, [29H,31H-phthalocyanine-C,C,C,C-tetrasulfonyl tetrachloridato(2-)-N29,N30,N31,N32]-	28680-76-4
Di-μ-carbonylbis(η ⁵ -2,4-cyclopentadien-1-yl)dinickel	12170-92-2	Nickel, [2-hydroxybenzoic acid [3-[1-cyano-2-(methylamino)-2-oxoethylidene]-2,3-dihydro-1H-isoindol-1-ylidene]hydrazidato(2-)]-	85958-80-1
Diammonium tetrachloronickelate(2-)	99587-11-8	Nickel, [carbonato(2-)]hexahydroxytetra-	12334-31-5
Dicobalt(2+) nickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	94232-84-5	Nickel, [N-(4-chlorophenyl)-2-[3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]methylene]hydrazino]-1H-isoindol-1-ylidene]-2-cyanoacetamidato(2-)]-	71889-20-8
Diiron nickel tetraoxide	12168-54-6	Nickel, [N-(carboxymethyl)glycinato(2-)-N,O,ON]-	13869-33-5
Diiron nickel zinc tetraoxide	97435-21-7	Nickel, [N,N',N'',N'''-tetrakis[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C,C-tetrasulfonamidato(2-)-N29,N30,N31,N32]-	72986-45-9

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Substance	CAS number	Substance	CAS number
Dimethoxy[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]nickel	83898-70-8	Nickel, [N,N',N''-tris[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C-trisulfonamidato(2-)-N29,N30,N31,N32]-	72252-57-4
Dimethylhexanoic acid, nickel salt	93983-68-7	Nickel, 2,2'-thiobis[4-nonylphenol] complexes	85480-75-7
Dinickel hexacyanoferrate	14874-78-3	Nickel, acetate carbonate C8-10-branched fatty acids C9-11-neofatty acids complexes	90459-30-6
Dinickel orthosilicate	13775-54-7	Nickel, acetylacetone 6-methyl-2,4-heptanedione complexes	90459-34-0
Diphosphoric acid, nickel(2+) salt	19372-20-4	Nickel, aqua[2-[(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl)azo]benzoato(2-)]-	106316-55-6
Diphosphoric acid, nickel(2+) salt (1:2)	14448-18-1	Nickel, bis(2,4-pentanedionato-O,O')-, (SP-4-1)-	3264-82-2
Dipotassium tetrafluoronickelate(2-)	13859-60-4	Nickel, bis(2-heptadecyl-1H-imidazole-N3)bis(octanoato-O)-	68912-08-3
Dipotassium tris(cyano-c)nickelate(2-)	39049-81-5	Nickel, bis(3-amino-4,5,6,7-tetrachloro-1H-isoindol-1-one oximato-N2,O1)-	70833-37-3
Dysprosium, compound with nickel (1:2)	12175-27-8	Nickel, bis(dibutylcarbomodithioato-S,S')-, (SP-4-1)-	13927-77-0
Ethanedioic acid, nickel(2+) salt (1:1)	547-67-1	Nickel, bis(diethylcarbomodithioato-S,S')-, (SP-4-1)-	14267-17-5
Ethyl hydrogen sulphate, nickel(2+) salt	71720-48-4	Nickel, bis(diisononylcarbomodithioato-')-	85298-61-9
Fatty acids, C6-19-branched, nickel salts	91697-41-5	Nickel, bis(dipentylcarbomodithioato-S,S')-, (SP-4-1)-	36259-37-7
Fatty acids, C8-18 and C18-unsaturated, nickel salts	84776-45-4	Nickel, bis(phenyldiazene-carbothioic acid 2-phenylhydrazidato)-	36545-21-8
Formic acid, copper nickel salt	68134-59-8	Nickel, bis[(2-hydroxy-4-octylphenyl)phenylmethanonato-O,O']-	68189-15-1
Hexaaminenickel(2+) bis[tetrafluoroborate(1-)]	13877-20-8	Nickel, bis[(cyano-C)triphenylborato(1-)-N]bis(hexanedinitrile-N,N')-	83864-02-2

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Substance	CAS number	Substance	CAS number
Hexanoic acid, 2-ethyl-, nickel(2+) salt	4454-16-4	Nickel, bis[[didecyl (1,2-dicyano-1,2-ethenediyl)bis[carbamato]](2-)]-	77245-35-3
Iron alloy, base,(Fe.Ni)(ferronickel)	11133-76-9	Nickel, bis[1,2-bis(4-methoxyphenyl)-1,2-ethenedithiolato(2-)-S,S']-, (SP-4-1)-	38951-97-2
Isononanoic acid, nickel(2+) salt	84852-37-9	Nickel, bis[1,2-diphenyl-1,2-ethenedithiolato(2-)-S,S']-, (SP-4-1)-	28984-20-5
Lanthanum, compound with nickel (1:5)	12196-72-4	Nickel, bis[1-[4-(diethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	51449-18-4
Leach residues, nickel-vanadium ore - Residues from basic leaching of nickel-bearing vanadium ores. Composed primarily of silica and insoluble compounds of nickel and vanadium with minor quantities of other metals, such as arsenic, lead, tin and zinc.	84144-92-3	Nickel, bis[1-[4-(dimethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	38465-55-3
Lithium nickel oxide (LiNiO ₂)	12031-65-1	Nickel, bis[2,3-bis(hydroxyimino)-N-(2-methoxyphenyl)butanamidato]-	42739-61-7
Molybdenum nickel oxide	12673-58-4	Nickel, bis[2,3-bis(hydroxyimino)-N-phenylbutanamidato-N ₂ ,N ₃]-	29204-84-0
Molybdenum nickel oxide (MoNiO ₄)	14177-55-0	Nickel, bis[2,4-dihydro-5-methyl-4-(1-oxodecyl)-2-phenyl-3H-pyrazol-3-onato-O,O']-	56557-00-7
Naphthenic acids, nickel salts	61788-71-4	Nickel, bis[2-butene-2,3-dithiolato(2-)-S,S']-, (SP-4-1)-	38951-94-9
Neodecanoic acid, nickel salt	51818-56-5	Nickel, bis[3-[(4-chlorophenyl)azo]-2,4(1H,3H)-quinolinedionato]-	51931-46-5
Nickel	7440-02-0	Nickel, bis[bis(2-methylpropyl)carbamodithioato-S,S']-, (SP-4-1)-	15317-78-9
Nickel [R(R*,R*)]-tartrate	52022-10-3	Nickel, bis[N-hydroxy-3-(hydroxyimino)-N'-(2-methoxyphenyl)butanimidamidato-N',N ₃]-	71605-83-9

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Substance	CAS number	Substance	CAS number
Nickel acetate	14998-37-9	Nickel, borate C8-10-branched carboxylate complexes	90459-31-7
Nickel acetate tetrahydrate	6018-89-9	Nickel, borate neodecanoate complexes	92502-55-1
Nickel acrylate	51222-18-5	Nickel, C4-10 fatty acids naphthenate complexes	93573-15-0
Nickel alloy, base , Ni,Al	12635-29-9	Nickel, C4-10 fatty acids octanoate complexes	93573-16-1
Nickel ammonium sulfate	15699-18-0	Nickel, C5-23-branched carboxylate C4-10 fatty acids complexes	93762-59-5
C.I. Pigment Yellow 157 (Nickel barium titanium priderite)	68610-24-2	Nickel, C5-23-branched carboxylate C4-10-fatty acids naphthenate complexes	93573-14-9
Nickel bis(benzenesulphonate)	39819-65-3	Nickel, C5-23-branched carboxylate naphthenate complexes	92200-98-1
Nickel bis(dihydrogen phosphate)	18718-11-1	Nickel, C5-25-branched carboxylate naphthenate octanoate complexes	92200-99-2
Nickel bis(phosphinate)	14507-36-9	Nickel, C5-C23-branched carboxylate octanoate complexes	90459-32-8
Nickel bis(piperidine-1-carbodithioate)	41476-75-9	Nickel, compound with niobium (1:1)	12034-55-8
Nickel bisphosphinate	36026-88-7	Nickel, compound with tin (3:1)	12059-23-3
Nickel boride	12619-90-8	Nickel, compound with zirconium (1:2)	12142-92-6
Nickel boride (Ni2B)	12007-01-1	Nickel, dichlorobis(triphenylphosphine)-	14264-16-5
Nickel boride (Ni3B)	12007-02-2	Nickel, isodecanoate naphthenate complexes	85585-97-3
Nickel boride (NiB)	12007-00-0	Nickel, isononanoate naphthenate complexes	85585-98-4
Nickel bromide (NiBr2)	13462-88-9	Nickel, isooctanoate naphthenate complexes	90459-33-9
Nickel bromide (NiBr2), trihydrate	7789-49-3	Nickel, naphthenate neodecanoate complexes	85585-99-5
Nickel carbide	12710-36-0	Nickel, tetrakis(triphenyl phosphite-P)-, (T-4)-	14221-00-2
Nickel carbonate	3333-67-3	Nickel, tetrakis[tris(methylphenyl) phosphite-P]-	35884-66-3

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Substance	CAS number	Substance	CAS number
Nickel carbonyl	12612-55-4	Nickel,[6,8,16,18-tetrachloro-1,11-bis(2-furanylmethyl)-1,10,11, 20-tetrahydrodibenzo[c,j]dipyrazolo[3,4-f:3',4'-m][1,2,5,8,9,12]hexaazacyclotetradecinato(2-)-N5,N10,N15,N20]-	79745-01-0
Nickel carbonyl	13463-39-3	Nickelate(1-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, potassium, (OC-6-21)-	67906-12-1
Nickel chloride	37211-05-5	Nickelate(1-), [3,4-bis[[[2-hydroxy-1-naphthalenyl)methylene]amino]benzoato(3-)-N3,N4,O3,O4]-, hydrogen	61300-98-9
Nickel chromate	14721-18-7	Nickelate(1-), [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O"]-, hydrogen, (T-4)-	34831-03-3
Nickel cyanide	557-19-7	Nickelate(1-), trichloro-, ammonium	24640-21-9
Nickel dibenzoate	553-71-9	Nickelate(2-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, dihydrogen, (OC-6-21)-	25481-21-4
Nickel dibromate	14550-87-9	Nickelate(2-), tetrakis(cyano-C)-, disodium, (SP-4-1)-	14038-85-8
Nickel dihydroxide hydrate	36897-37-7	Nickelate(3-), [22-[[[3-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(5-)-N29,N30,N31,N32]-, trisodium, (SP-4-2)-	71243-96-4
Nickel dimethyldithiocarbamate	15521-65-0	Nickelate(3-), [5-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-3-[[2-hydroxy-3-nitro-5-sulfophenyl]azo]-2,7-naphthalenedisulfonato(5-)]-, trisodium	79817-91-7

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Substance	CAS number	Substance	CAS number
Nickel dipotassium bis(sulphate)	13842-46-1	Nickelate(3-), [C-[[[3-[[[4-amino-6-chloro-1,3,5-triazin-2-yl)amino]phenyl]amino]sulfonyl]-C,C,C-tris(aminosulfonyl)-29H,31H-phthalocyanine-C,C,C-trisulfonato(5-)-N29,N30,N31,N32]-, trisodium	72229-81-3
Nickel dithiocyanate	13689-92-4	Nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-], triammonium, (T-4)-	68025-40-1
Nickel fluoride (NiF ₂)	10028-18-9	Nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-], tripotassium, (T-4)-	63597-34-2
Nickel fluoride (NiF ₂), tetrahydrate	13940-83-5	Nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)-], trisodium,(T-4)-	68025-41-2
Nickel formate	15843-02-4	Nickelate(4-), [[[nitrilotris(methylene)]tris(phosphonato)](6-)-N,OP,OP',OP'']-, tetrapotassium, (T-4)-	63588-33-0
Nickel hydrogen phosphate	14332-34-4	Nickelate(4-), [[[nitrilotris(methylene)]tris(phosphonato)](6-)-N,OP,OP',OP'']-, tetrasodium, (T-4)-	68052-00-6
Nickel hydroxide	11113-74-9	Nickelate(4-), [[[nitrilotris(methylene)]tris(phosphonato)](6-)-N,OP,OP',OP'']-, triammonium hydrogen, (T-4)-	67968-22-3
Nickel hydroxide	12054-48-7	Nickelate(4-), [22-[[[4-sulfophenyl)amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(6-)-N29,N30,N31,N32]-, tetrahydrogen, (SP-4-2)-	70729-79-2
Nickel hydroxide	12125-56-3	Nickelate(4-), [bis[[[3-[[[4,5-dihydro-3-methyl-5-oxo-1-[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]-1H-pyrazol-4-yl]azo]phenyl]amino]sulfonyl]-29H,31H-phthalocyaninedisulfonato(6-)-N29,N30,N31,N32]-, sodium	90459-36-2

Substance	CAS number	Substance	CAS number
Nickel isooctanoate	27637-46-3	Nickelate(6-), [4-[[5-[[[3,6-dichloro-4-pyridazinyl)carbonyl]amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-[2-sulfo-5-[[[trisulfo-29H,31H-phthalocyaninyl)sulfonyl]amino]phenyl]-1H-pyrazole-3-carboxylato(8-)-N29,N30,N31,N32]-, hexasodium	93891-86-2
Nickel methacrylate	94275-78-2	Nickelate(6-), [4-[[5-[[[3,6-dichloro-4-pyridazinyl)carbonyl]amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-[5-[[[trisulfo-29H,31H-phthalocyaninyl)sulfonyl]amino]-2-sulfophenyl]-1H-pyrazole-3-carboxylato(8-)-N29,N30,N31,N32]-,hexahydrogen	68698-80-6
Nickel nitrate	14216-75-2	Nickelate(6-), [C-[[[3-[[[4,5-dihydro-3-methyl-5-oxo-1-[3-sulfo-4-[2-[2-sulfo-4-[(2,5,6-trichloro-4-pyrimidinyl)amino]phenyl]ethenyl]phenyl]-1H-pyrazol-4-yl]azo]-4-sulfophenyl]amino)sulfonyl]-29H,31H-phthalocyanine-C,C,C-trisulfonato(8-)-N29,N30,N31,N32]-,	72453-55-5
Nickel nitrate (2+ salt)	13138-45-9	Nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentaammonium hydrogen,(OC-6-21)-	68958-86-1
Nickel nitrite	17861-62-0	Nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentapotassium hydrogen,(OC-6-21)-	68958-87-2
Nickel oxide	11099-02-8	Nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentasodium hydrogen,(OC-6-21)-	68958-88-3

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Substance	CAS number	Substance	CAS number
Nickel oxide	1313-99-1	Nickelate(8-), bis[3-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-2-hydroxy-5-sulfobenzoato(5-)]-, hexasodium dihydrogen	72139-08-3
Phosphoric acid, compounds, nickel(2+) zinc salt (2:1:2)	90053-13-7	Nickelocene	1271-28-9
Phosphoric acid, compounds, nickel(2+) zinc salt (2:1:2) tetrahydrate	501953-51-1	Octadecanoic acid, nickel(2+) salt	2223-95-2
Residues, copper-iron-lead-nickel matte, sulfuric acid-insol.	102110-49-6	Octanoic acid, nickel(2+) salt	4995-91-9
Silicic acid, lead nickel salt	68130-19-8	Oxalic acid, nickel salt	20543-06-0
Nickel nitrite	17861-62-0	Perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1
Perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1	Phosphonic acid, [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]-, monoethyl ester, nickel(2+) salt (2:1)	30947-30-9
Nickel perchlorate	13637-71-3	Phosphoric acid, calcium nickel salt	17169-61-8
Nickel uranium oxide (NiU ₃ O ₁₀)	15780-33-3	Phosphoric acid, nickel(2+) salt (2:3)	10381-36-9
Nickel uranyl tetraacetate, of uranium depleted in uranium-235	71767-12-9	Potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']nickelate(1-)	63640-18-6
Nickel selenate	15060-62-5	Silicic acid (H ₂ SiO ₃), nickel(2+) salt (4:3)	31748-25-1
Nickel selenide	1314-05-2	Spinel, cobalt nickel zinc grey	95046-47-2
Nickel(2+) selenite	10101-96-9	Sulfamic acid, nickel(2+) salt (2:1)	13770-89-3
Zirconate(2-), hexafluoro-, nickel(2+) (1:1), (OC-6-11)-	30868-55-4	Sulfuric acid, ammonium nickel(2+) salt	7785-20-8
Aluminiummagnesiumnickelsiliziumoxide	198831-12-8	Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate	72162-32-4
Antimony nickel titanium oxide yellow	8007-18-9	Sulfuric acid, nickel(2+) salt (1:1), heptahydrate	10101-98-1
Iron nickel zinc oxide	12645-50-0	Sulfuric acid, nickel(2+) salt (1:1), reaction products with nickel and nickel oxide (NiO)	68585-48-8

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Substance	CAS number	Substance	CAS number
5,5-Azobis(2,4,6-pyrimidinetriol), nickel complex	68511-62-6	Telluric acid (H ₂ TeO ₃), nickel(2+) salt (1:1)	15851-52-2
Chrome iron nickel black spinel	71631-15-7	Telluric acid (H ₂ TeO ₄), nickel(2+) salt (1:1)	15852-21-8
Nickel niobium titanium yellow rutile	68611-43-8	Tetrahydrogen [[[3-amino-4-sulphophenyl)amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N ₂₉ ,N ₃₀ ,N ₃₁ ,N ₃₂]nickelate(4-)	79102-62-8
Nickel phosphate	14396-43-1	Tetrakis(trifluorophosphine)nickel	13859-65-9
Nickel sulfide	11113-75-0	Tetrasodium [[[3-amino-4-sulphophenyl)amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N ₂₉ ,N ₃₀ ,N ₃₁ ,N ₃₂]nickelate(4-)	93939-76-5
Titanate(2-), hexafluoro-, nickel(2+), (1:1), (OC-6-11)-	34109-80-3	Tetrasodium [bis[[4-[[2-(sulphooxy)ethyl]sulphonyl]phenyl]amino]sulphonyl]-29H,31H-phthalocyaninedisulphonato(6-)-N ₂₉ ,N ₃₀ ,N ₃₁ ,N ₃₂]nickelate(4-)	97280-68-7
Nickel oxide (Ni ₂ O ₃)	1314-06-3		

Table 4.13 Ozone Depleting Substances Group I – Group VIII

Substance	CAS number	Substance	CAS number
Trichlorofluoromethane (CFC 11)	75-69-4	Trichlorotrifluoroethane (CFC-113)	76-13-1,
Dichlorodifluoromethane (CFC12)	75-71-8	1,1,1,2,3,3,3-Heptachloro-2-fluoropropane (CFC-211ba)	422-81-1
Chlorotrifluoromethane (CFC 13)	75-72-9	Pentachlorotrifluoropropane (CFC-213)	2354-06-05
Pentachlorofluoroethane (CFC 111)	354-56-3	Bromochloromethane (Halon-1011)	74-97-5
Tetrachlorodifluoroethane (CFC 112)	76-12-0	Dibromodifluoromethane (Halon-1202)	75-61-6
Trichlorotrifluoroethane (CFC 113)	354-58-5	Bromoethane (ethyl bromide)	74-96-4

Substance	CAS number	Substance	CAS number
1,1,2 Trichlorotrifluoroethane	76-13-1	1-Bromopropane (n-propyl bromide)	106-94-5
Dichlorotetrafluoroethane (CFC 114)	76-14-2	Trifluoroiodomethane (trifluoromethyl iodide)	2314-97-8
Monochloropentafluoroethane (CFC 115)	76-15-3	Chloromethane (methyl chloride)	74-87-5
Heptachlorofluoropropane (CFC 211)	422-78-6	Dibromofluoromethane (HBFC-21 B2)	1868-53-7
Heptachlorofluoropropane (CFC 211)	135401-87-5	Bromofluoromethane (HBFC-31 B1)	373-52-4
Hexachlorodifluoropropane (CFC 212)	3182-26-1	Tetrabromofluoroethane (HBFC-121 B4)	306-80-9
Pentachlorotrifluoropropane (CFC 213)	134237-31-3	Dibromotrifluoroethane (HBFC-123 B2)	354-04-1
Tetrachlorotetrafluoropropane (CFC 214)	29255-31-0	Bromotetrafluoroethane (HBFC-124 B1)	124-72-1
1,1,1,3-Tetrachlorotetrafluoropropane	2268-46-4	Dibromodifluoroethane (HBFC-132 B2)	75-82-1
Trichloropentafluoropropane (CFC 215)	1599-41-3	Bromotrifluoroethane (HBFC-133 B1)	421-06-7
1,1,1-Trichloropentafluoropropane	4259-43-2	Dibromofluoroethane (HBFC-141 B2)	358-97-4
1,2,3-Trichloropentafluoropropane	76-17-5	Bromodifluoroethane (HBFC-142 B1)	420-47-3
Dichlorohexafluoropropane (CFC 216)	661-97-2	Bromofluoroethane (HBFC-151 B1)	762-49-2
Monochloroheptafluoropropane (CFC 217)	422-86-6	Dibromopentafluoropropane (HBFC-225 B2)	431-78-7
Bromochlorodifluoromethane (Halon 1211)	353-59-3	Bromohexafluoropropane (HBFC-226 B1)	2252-78-0
Bromotrifluoromethane (Halon 1301)	75-63-8	Bromopentafluoropropane (HBFC-235 B1)	460-88-8
Dibromotetrafluoroethane (Halon 2402)	124-73-2	Tribromodifluoropropane (HBFC-242 B3)	70192-80-2
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	Dibromotrifluoropropane (HBFC-243 B2)	431-21-0
1,1,1, - Trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6	Bromotetrafluoropropane (HBFC-244 B1)	679-84-5
Bromomethane (Methyl Bromide)	74-83-9	Tribromofluoropropane (HBFC-251 B3)	75372-14-4
Bromodifluoromethane and isomers (HBFC's)	1511-62-2	Dibromodifluoropropane (HBFC-252 B2)	460-25-3

Substance	CAS number	Substance	CAS number
Dichlorofluoromethane (HCFC 21)	75-43-4	Bromotrifluoropropane (HBFC-253 B1)	421-46-5
Chlorodifluoromethane (HCFC 22)	75-45-6	Dibromofluoropropane (HBFC-261 B2)	51584-26-0
Chlorofluoromethane (HCFC 31)	593-70-4	Bromofluoropropane (HBFC-271 B1)	1871-72-3
Tetrachlorofluoroethane (HCFC 121)	134237-32-4	1,1,2-Trichloro-1,2-difluoroethane (HCFC-122a)	354-15-4
1,1,1,2-tetrachloro-2-fluoroethane	354-11-0	1,1,1-Trichloro-2,2-difluoroethane (HCFC-122b)	354-12-1
1,1,2,2-tetracloro-1-fluoroethane	354-14-3	Trichlorofluoroethane (HCFC-131)	27154-33-2;
Trichlorodifluoroethane (HCFC 122)	41834-16-6	Ethane,1,1,2-trichloro-2-fluoro-	134237-34-6
1,2,2-trichloro-1,1-difluoroethane	354-21-2	1,1,2-Trichloro-1-fluoroethane (HCFC131a) 1,1,1-Trichloro-2-fluoroethane (HCFC-131b)	811-95-0 2366-36-1
Dichlorotrifluoroethane(HCFC 123)	34077-87-7	Ethane,1-chloro-1,2,2-trifluoro-	431-07-2
Dichloro-1,1,2-trifluoroethane	90454-18-5	1-Chloro-1,1,2-trifluoroethane (HCFC-133b)	421-04-5
2,2-dichloro-1,1,1-trifluoroethane	306-83-2	Dichlorofluoroethane(HCFC-141)	1717-00-6;
1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)	354-23-4	1,1-dichloro-2-fluoroethane	25167-88-8
1,1-dichloro-1,2,2-trifluoroethane (HCFC-123b)	812-04-4	1,1-Dichloro-2-fluoroethane (HCFC-141a)	430-53-5
2,2-dichloro-1,1,2-trifluoroethane (HCFC-123b)	812-04-4	2-Chloro-1,1-Difluoroethane (HCFC-142)	338-65-8
Chlorotetrafluoroethane (HCFC 124)	63938-10-3	1-Chloro-1,2-difluoroethane (HCFC-142a)	338-64-7
2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	Chlorofluoroethane (HCFC-151)	110587-14-9
1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a)	354-25-6	1-Chloro-2-fluoroethane (HCFC-151)	762-50-5
Trichlorofluoroethane (HCFC 131)	27154-33-2	1-Chloro-1-fluoroethane (HCFC-151a)	1615-75-4
1-Fluoro-1,2,2-trichloroethane	359-28-4	Propane,hexachlorofluoro-(9CI)	29470-94-8
1,1,1-trichloro-2-fluoroethane (HCFC131b)	811-95-0	1,1,1,2,2,3-Hexachloro-3-fluoropropane (HCFC-221ab)	422-26-4
Dichlorodifluoroethane (HCFC 132)	25915-78-0	1,1,1,3,3-pentachloro-2,2-difluoropropane (HCFC-222ca))	422-49-1

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Substance	CAS number	Substance	CAS number
1,2-dichloro-1,1-difluoroethane (HCFC 132b)	1649-08-7	1,2,2,3,3-pentachloro-1,1-difluoropropane (HCFC-222aa)	422-30-0
1,1-dichloro-1,2-difluoroethane (HCFC 132c)	1842-05-3	1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223ca)	422-52-6
1,1-dichloro-2,2-difluoroethane	471-43-2	1,1,1,3-Tetrachloro-2,2,3-trifluoropropane (HCFC-223cb)	422-50-4
1,2-dichloro-1,2-difluoroethane	431-06-1	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	422-54-8
Chlorotrifluoroethane (HCFC 133)	1330-45-6	1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)	422-53-7
1-chloro-1,2,2-trifluoroethane	1330-45-6	1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	422-51-7
2-chloro-1,1,1-trifluoroethane (HCFC-133a)	75-88-7	Dichloropentafluoropropane (HCFC-225)	127564-92-5
Dichlorofluoroethane(HCFC 141)	1717-00-6; (25167-88-8)	2-Chloro-1,1,1,3,3,3-hexafluoro-propane (HCFC-226da)	431-87-8
Dichlorofluoroethane(HCFC 141)	1717-00-6	1,1,1,2,3-pentachloro-2-fluoro-propane (HCFC-231bb)	421-94-3
1,1-dichloro-1-fluoroethane (HCFC-141b)	430-57-9	1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC-232fc)	460-89-9
Chlorodifluoroethane (HCFC 142)	25497-29-4	1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234db)	425-94-5
1-chloro-1,1-difluoroethane (HCFC142b)	75-68-3	1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241db)	666-27-3
1-chloro-1,2-difluoroethane (HCFC142a)	25497-29-4	1,3,3,Trichloro-1,1-difluoropropane (HCFC-242fa)	460-63-9
Hexachlorofluoropropane (HCFC 221)	134237-35-7	1-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244cc)	421-75-0
Pentachlorodifluoropropane (HCFC 222)	134237-36-8	1,1,2-Trichloro-1-fluoropropane (HCFC-251dc)	421-41-0
Tetrachlorotrifluoropropane (HCFC 223)	134237-37-9	1,3-Dicloro-1,1-difluoropropane (HCFC-252fb)	819-00-1
Trichlorotetrafluoropropane (HCFC 224)	134237-38-0	1,2-Dichloro-2-fluoro-propane (HCFC-261ba)	420-97-3
Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC 225)	127564-92-5; (2713-09-9)	1-Chloro-2,2-difluoropropane (HCFC-262ca)	420-99-5
(HCFC 225aa)	128903-21-9	1-Chloro-1,1-difluoropropane (HCFC-262fc)	421-02-03
(HCFC 225ba)	422-48-0	1-Chloro-1-fluoropropane (HCFC-271fb)	430-55-7

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Substance	CAS number	Substance	CAS number
(HCFC 225bb)	422-44-6	Hexachloroethane	67-72-1
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC 225cb)	422-56-0	Hexafluoroethane (PFC-116)	76-16-4
(HCFC 225cc)	507-55-1	Octafluoropropane (PFC-218)	76-19-7
(HCFC 225da)	13474-88-9	Decafluorobutane (PFC-31-10)	355-25-9
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	431-86-7	Dodecafluoropentane (PFC-41-12)	678-26-2
(HCFC 225eb)	136013-79-1	Tetradecafluorohexane (PFC-51-14)	355-42-0
(HCFC 225eb)	111512-56-2	Octafluorocyclobutane (PFC-c318)	115-25-3
Chlorohexafluoropropane (HCFC 226)	134308-72-8	Sulfur Hexafluoride (SF6)	2551-62-4
Pentachlorofluoropropane (HCFC 231)	134190-48-0	Trifluoromethane (HFC-23)	75-46-7
Tetrachlorodifluoropropane (HCFC 232)	134237-39-1	Difluoromethane (HFC-32)	75-10-5
Trichlorotrifluoropropane (HCFC 233)	134237-40-4	Methyl fluoride (HFC-41)	593-53-3
1,1,1-Trichloro-3,3,3-trifluoropropane	7125-83-9	2H,3H-Decafluoropentane (HFC-43-10mee)	138495-42-8
Dichlorotetrafluoropropane (HCFC 234)	127564-83-4	Pentafluoroethane (HFC-125)	354-33-6
Chloropentafluoropropane (HCFC 235)	134237-41-5	1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
1-Chloro-1,1,3,3,3-pentafluoropropane	460-92-4	1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
Tetrachlorofluoropropane (HCFC 241)	134190-49-1	1,1-Difluoroethane (HFC-152a)	75-37-6
Trichlorodifluoropropane (HCFC 242)	134237-42-6	1,1,2-Trifluoroethane (HFC-143) 1,1,1-Trifluoroethane (HFC-143a)	430-66-0 420-46-2
Dichlorotrifluoropropane (HCFC 243)	134237-43-7	2H-Heptafluoropropane (HFC-227ea)	431-89-0
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7	1,1,1,2,2,3-Hexafluoropropane (HFC-236cb)	677-56-5
2,3-dichloro-1,1,1-trifluoropropane	338-75-0	1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)	431-63-0
3,3-Dichloro-1,1,1-trifluoropropane	460-69-5	1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)	690-39-1
Chlorotetrafluoropropane (HCFC 244)	134190-50-4	1,1,2,2,3-Pentafluoropropane (HFC-245ca)	679-86-7
3-chloro-1,1,2,2-tetrafluoropropane	679-85-6	1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1

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Substance	CAS number	Substance	CAS number
Trichlorofluoropropane (HCFC 251)	134190-51-5	1,1,1,3,3-Pentafluorobutane (HFC-365mfc)	406-58-6
1,1,3-trichloro-1-fluoropropane	818-99-5	Methane, chloro-	74-87-3
Dichlorodifluoropropane (HCFC 252)	134190-52-6	Propane,1-chloro-1,1-difluoro-	421-02-3
Chlorotrifluoropropane (HCFC 253)	134237-44-8	Difluoroethane	25497-28-3
3-chloro-1,1,1-trifluoropropane (HCFC 253fb)	460-35-5	1,2-Difluoroethane	624-72-6
Dichlorofluoropropane (HCFC 261)	134237-45-9	Trifluoroethane	27987-06-0
1,1-dichloro-1-fluoropropane	7799-56-6	1,1,1,2,2,3,3-Heptafluoropropane	2252-84-8
Chlorodifluoropropane (HCFC 262)	134190-53-7	Hexafluoropropane	27070-61-7
2-chloro-1,3-difluoropropane	102738-79-4	1,1,1,2,2-Pentafluoropropane	1814-88-6
Chlorofluoropropane (HCFC 271)	134190-54-8	Octadecafluorooctane, Perfluorooctane	307-34-6
2-chloro-2-fluoropropane	420-44-0	PFC72,PFC-51-14	335-57-9
Tetrafluoromethane (CF4)	75-73-0	HFC-356mff,HFC-356ffa	407-59-0
Trichlorofluoromethane (CFC-11)	75-69-4	Monofluoroethane (Ethyl fluoride)(HFC-161)	353-36-6
1,1,1,2-Tetrachloro-2,2-difluoroethane (CFC-112a)	76-11-9	Heptafluorocyclopentane(HFC-c-447ef)	15290-77-4

Table 4.14 Pentachlorophenol (PCP) and its salts and compounds

Substance	CAS number	Substance	CAS number
Pentachlorophenol	87-86-5	Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate	13673-54-6
Sodium pentachlorophenolate	131-52-2	Pentachlorophenyl N-[[[4-methoxyphenyl)methoxy]carbonyl]-L-serinate	23234-97-1
Perchlorophenyl 5-oxo-L-prolinate	28990-85-4	Zinc bis(pentachlorophenolate)	2917-32-0
N2-benzyl pentachlorophenyl N2-carboxy-L-(2-aminoglutaramate)	13673-51-3	Pentachlorophenyl laurate	3772-94-9

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Substance	CAS number	Substance	CAS number
Perchlorophenyl N-(benzyloxycarbonyl)-L-isoleucinate	13673-53-5	Potassium pentachlorophenolate	7778-73-6

Table 4.15 Polycyclic Aromatic Hydrocarbons

Substance	CAS number	Substance	CAS number
Acenaphthene	82-32-9	Creosote, coal tar, tar oil	-
Acenaphthylene	208-96-8	Dibenzo[a,h]anthracene	53-70-3
Anthracene	120-12-7	Fluoranthene	206-44-0
Benzo[a]anthracene	56-55-3	Fluorene	86-73-7
Benzo[a]pyrene	50-32-8	Chrysene	218-01-9
Benzo[b]fluoranthene	205-99-2	Indeno[1,2,3-cd]pyrene	193-39-5
Benzo[e]pyrene	192-97-2	Naphthaline	91-20-3
Benzo[ghi]perylene	191-24-2	Phenanthrene	67580
Benzo[j]fluoranthene	205-82-3	Pyrene	129-00-0
Benzo[k]fluoranthene	207-08-9		

Table 4.16 Polychlorinated Biphenyls (PCBs) and specific substitutes

Material	CAS number	Material	CAS number
(-)-2,2',3,3',4,5,6'-heptachlorobiphenyl	207004-31-7	2,2',4,5,6'-pentachlorobiphenyl	68194-06-9
(-)-2,2',3,3',5,6'-hexachlorobiphenyl	207004-29-3	2,2',4,5-tetrachlorobiphenyl	70362-47-9
(-)-2,2',3,4,4',6-hexachlorobiphenyl	99554-13-9	2,2',4,6,6'-pentachlorobiphenyl	56558-16-8
(-)-2,2',3,4,6-pentachlorobiphenyl	99554-11-7	2,2',4,6'-tetrachlorobiphenyl	68194-04-7
(-)-2,2',3,5',6-pentachlorobiphenyl	151262-35-0	2,2',4,6-tetrachlorobiphenyl	62796-65-0
(-)-2,2',3,6-tetrachlorobiphenyl	151262-32-7	2,2',5,6',?,?,-octachlorobiphenyl	111276-83-6
(+)-2,2',3,3',4,4',5,6'-octachlorobiphenyl	207004-35-1	2,2',5,6',?,?,-heptachlorobiphenyl	111276-80-3
(+)-2,2',3,3',4,5',6-heptachlorobiphenyl	207004-34-0	2,2',5,6',?,?-hexachlorobiphenyl	111276-77-8
(+)-2,2',3,3',4,6,6'-heptachlorobiphenyl	207004-32-8	2,2',5,6'-tetrachlorobiphenyl	41464-41-9
(+)-2,2',3,3',4,6'-hexachlorobiphenyl	207004-28-2	2,2',6',?,?-pentachlorobiphenyl	111276-76-7
(+)-2,2',3,3',4,6-hexachlorobiphenyl	207004-33-9	2,3,?(or 3,4,?)-trichlorobiphenyl	97122-18-4
(+)-2,2',3,3',6,6'-hexachlorobiphenyl	207004-30-6	2,3,3',4,4',5,5',?-octachlorobiphenyl	111276-82-5
(+)-2,2',3,3',6-pentachlorobiphenyl	207004-27-1	2,3,3',4,4',5,5',6-octachlorobiphenyl	74472-53-0
(+)-2,2',3,4,4',5',6-heptachlorobiphenyl	228420-07-3	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	39635-31-9
(+)-2,2',3,4,4',6-hexachlorobiphenyl	99554-12-8	2,3,3',4,4',5,6-heptachlorobiphenyl	41411-64-7

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(+)-2,2',3,4,4',6-hexachlorobiphenyl	99554-09-3	2,3,3',4,4',5',6-heptachlorobiphenyl	74472-50-7
(+)-2,2',3,4,5',6-hexachlorobiphenyl	228420-06-2	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	69782-90-7
(+)-2,2',3,4',5',6-hexachlorobiphenyl	207004-36-2	2,3,3',4,4',6-hexachlorobiphenyl	74472-42-7
(+)-2,2',3,4,6-pentachlorobiphenyl	99554-10-6	2,3,3',4,5,5',6-heptachlorobiphenyl	74472-51-8
(+)-2,2',3,4,6-pentachlorobiphenyl	55215-17-3	2,3,3',4',5,5',6-heptachlorobiphenyl	69782-91-8
(+)-2,2',3,4,6-pentachlorobiphenyl	99554-08-2	2,3,3',4,5,5'-hexachlorobiphenyl	39635-35-3
(+)-2,2',3,5',6-pentachlorobiphenyl	151262-34-9	2,3,3',4',5,5'-hexachlorobiphenyl	39635-34-2
(+)-2,2',3,6-tetrachlorobiphenyl	151262-31-6	2,3,3',4,5,6-hexachlorobiphenyl	41411-62-5
(R)-2,2',3,3',4,4',5,6'-octachlorobiphenyl	177020-15-4	2,3,3',4,5',6-hexachlorobiphenyl	74472-43-8
(R)-2,2',3,3',4,4',6,6'-octachlorobiphenyl	109328-45-2	2,3,3',4',5,6-hexachlorobiphenyl	74472-44-9
(R)-2,2',3,3',4,4',6-heptachlorobiphenyl	176914-46-8	2,3,3',4',5',6-hexachlorobiphenyl	74472-45-0
(R)-2,2',3,3',4,5,6'-heptachlorobiphenyl	179678-28-5	2,3,3',4,5'-pentachlorobiphenyl	70362-41-3
(R)-2,2',3,3',4,5',6-heptachlorobiphenyl	179678-30-9	2,3,3',4,5-pentachlorobiphenyl	70424-69-0
(R)-2,2',3,3',4,6,6'-heptachlorobiphenyl	179678-32-1	2,3,3',4',5'-pentachlorobiphenyl	76842-07-4
(R)-2,2',3,3',4,6'-hexachlorobiphenyl	153153-48-1	2,3,3',4',5-pentachlorobiphenyl	70424-68-9
(R)-2,2',3,3',4,6-hexachlorobiphenyl	179678-26-3	2,3,3',4,6-pentachlorobiphenyl	74472-35-8
(R)-2,2',3,3',5,6'-hexachlorobiphenyl	205991-67-9	2,3,3',4',6-pentachlorobiphenyl	38380-03-9
(R)-2,2',3,3',6,6'-hexachlorobiphenyl	153153-50-5	2,3,3',4-tetrachlorobiphenyl	74338-24-2
(R)-2,2',3,3',6-pentachlorobiphenyl	153153-44-7	2,3,3',5,5',6-hexachlorobiphenyl	74472-46-1
(R)-2,2',3,4,4',5',6-heptachlorobiphenyl	176914-47-9	2,3,3',5,5'-pentachlorobiphenyl	39635-32-0
(R)-2,2',3,4,5',6-hexachlorobiphenyl	205991-69-1	2,3,3',5,6-pentachlorobiphenyl	74472-36-9
(R)-2,2',3,4',5',6-hexachlorobiphenyl	159000-96-1	2,3,3',5',6-pentachlorobiphenyl	68194-10-5
(R)-2,2',3,4',6-pentachlorobiphenyl	153153-46-9	2,3,3',5'-tetrachlorobiphenyl	41464-49-7
(S)-2,2',3,3',4,4',5,6'-octachlorobiphenyl	177020-16-5	2,3,3',5-tetrachlorobiphenyl	70424-67-8
(S)-2,2',3,3',4,4',6,6'-octachlorobiphenyl	109328-46-3	2,3,3',6-tetrachlorobiphenyl	74472-33-6
(S)-2,2',3,3',4,4',6-heptachlorobiphenyl	176914-48-0	2,3',4,4',5',6-hexachlorobiphenyl	59291-65-5
(S)-2,2',3,3',4,5,6'-heptachlorobiphenyl	179678-29-6	2,3,4,4',6-pentachlorobiphenyl	74472-38-1
(S)-2,2',3,3',4,5',6-heptachlorobiphenyl	179678-31-0	2,3,4,4'-tetrachlorobiphenyl	33025-41-1
(S)-2,2',3,3',4,6,6'-heptachlorobiphenyl	179678-33-2	2,3',4,4'-tetrachlorobiphenyl	32598-10-0
(S)-2,2',3,3',4,6'-hexachlorobiphenyl	153153-47-0	2,3',4,5,5'-pentachlorobiphenyl	68194-12-7
(S)-2,2',3,3',4,6-hexachlorobiphenyl	179678-27-4	2,3',4',5,5'-pentachlorobiphenyl	70424-70-3

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(S)-2,2',3,3',5,6'-hexachlorobiphenyl	205991-68-0	2,3,4',5,6-pentachlorobiphenyl	68194-11-6
(S)-2,2',3,3',6,6'-hexachlorobiphenyl	153153-49-2	2,3',4,5',6-pentachlorobiphenyl	56558-18-0
(S)-2,2',3,3',6-pentachlorobiphenyl	153153-43-6	2,3',4',5',6-pentachlorobiphenyl	74472-39-2
(S)-2,2',3,4,4',5',6-heptachlorobiphenyl	176914-49-1	2,3,4,5-tetrachlorobiphenyl	33284-53-6
(S)-2,2',3,4,5',6-hexachlorobiphenyl	205991-70-4	2,3,4',5-tetrachlorobiphenyl	74472-34-7
(S)-2,2',3,4',5',6-hexachlorobiphenyl	159000-97-2	2,3',4,5'-tetrachlorobiphenyl	73575-52-7
(S)-2,2',3,4',6-pentachlorobiphenyl	153153-45-8	2,3',4,5-tetrachlorobiphenyl	73575-53-8
2,?,?-trichlorobiphenyl	111276-78-9	2,3',4',5'-tetrachlorobiphenyl	70362-48-0
2,2',3,3',4,4',5,5'-octachlorobiphenyl	35694-08-7	2,3',4',5-tetrachlorobiphenyl	32598-11-1
2,2',3,3',4,4',5,6-octachlorobiphenyl	52663-78-2	2,3',4',6-tetrachlorobiphenyl	41464-46-4
2,2',3,3',4,4',6,6'-octachlorobiphenyl	33091-17-7	2,3',4-trichlorobiphenyl	55712-37-3
2,2',3,3',4,4',6-hexachlorobiphenyl	38380-07-3	2',3,4-trichlorobiphenyl	38444-86-9
2,2',3,3',4,5,5',6-octachlorobiphenyl	68194-17-2	2,3',5,5'-tetrachlorobiphenyl	41464-42-0
2,2',3,3',4,5,5'-heptachlorobiphenyl	52663-74-8	2,3,5,6-tetrachlorobiphenyl	33284-54-7
2,2',3,3',4,5',6,6'-octachlorobiphenyl	40186-71-8	2,3',5',6-tetrachlorobiphenyl	74338-23-1
2,2',3,3',4,5,6-heptachlorobiphenyl	68194-16-1	2,3',5-trichlorobiphenyl	38444-81-4
2,2',3,3',4,5',6-heptachlorobiphenyl	40186-70-7	2,3,6-trichlorobiphenyl	55702-45-9
2,2',3,3',4,6,6'-heptachlorobiphenyl	52663-65-7	2,3'-dichlorobiphenyl	25569-80-6
2,2',3,3',4,6-hexachlorobiphenyl	61798-70-7	2,4,?'(2,6,?' or 3,5,?')-trichlorobiphenyl	97122-20-8
2,2',3,3',5,5',6-heptachlorobiphenyl	52663-67-9	2,4',?-trichlorobiphenyl	94487-00-0
2,2',3,3',5,6-hexachlorobiphenyl	52704-70-8	2,4,4'(or 3,4,4')-trichlorobiphenyl	62461-62-5
2,2',3,4,4',5(or 2,2',3,4,4',5')-hexachlorobiphenyl	108145-39-7	2,4,4',?,?-pentachlorobiphenyl	111276-75-6
2,2',3,4,4',5,6,6'-octachlorobiphenyl	74472-52-9	2,4,4',5-tetrachlorobiphenyl	32690-93-0
2,2',3,4,4',5,6'-heptachlorobiphenyl	60145-23-5	2,4,4',6-tetrachlorobiphenyl	32598-12-2
2,2',3,4,4',5,6-heptachlorobiphenyl	74472-47-2	2,4,4'-trichlorobiphenyl	7012-37-5
2,2',3,4,4',5',6-heptachlorobiphenyl	52663-69-1	2,4'-dichlorobiphenyl	34883-43-7
2,2',3,4,4',6,6'-heptachlorobiphenyl	74472-48-3	2,4-dichlorobiphenyl	33284-50-3
2,2',3,4,4'-pentachlorobiphenyl	65510-45-4	2,5-dichlorobiphenyl	34883-39-1
2,2',3,4,5,6,6'-heptachlorobiphenyl	74472-49-4	2,6-dichlorobiphenyl	33146-45-1
2,2',3,4',5,6,6'-heptachlorobiphenyl	74487-85-7	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	32598-13-3
2,2',3,4,5,6'-hexachlorobiphenyl	68194-15-0	3,3',4,5'-tetrachlorobiphenyl	41464-48-6
2,2',3,4,5,6-hexachlorobiphenyl	41411-61-4	3,3',4,5-tetrachlorobiphenyl	70362-49-1
2,2',3,4,5',6-hexachlorobiphenyl	68194-14-9	3,3',5,5'-tetrachlorobiphenyl	33284-52-5
2,2',3,4',5,6'-hexachlorobiphenyl	74472-41-6	3,3',5-trichlorobiphenyl	38444-87-0
2,2',3,4',5,6-hexachlorobiphenyl	68194-13-8	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	70362-50-4
2,2',3,4',5',6-hexachlorobiphenyl	38380-04-0	3,4',5-trichlorobiphenyl	38444-88-1
2,2',3,4',5-pentachlorobiphenyl	68194-07-0	3,4-dichlorobiphenyl	2974-92-7
2,2',3,4,6,6'-hexachlorobiphenyl	74472-40-5	3,5-dichlorobiphenyl	34883-41-5
2,2',3,4',6,6'-hexachlorobiphenyl	68194-08-1	4,4',?,?,?-hexachlorobiphenyl	111276-79-0

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2,2',3,4,6'-pentachlorobiphenyl	73575-57-2	4,4',?,?,?-pentachlorobiphenyl	111276-81-4
2,2',3,4',6'-pentachlorobiphenyl	60233-25-2	ar,ar,ar-trichlorobiphenyl	30605-61-9
2,2',3,4',6-pentachlorobiphenyl	68194-05-8	ar,ar'-dichlorobiphenyl	33039-81-5
2,2',3,4'-tetrachlorobiphenyl	36559-22-5	Aroclor (9Cl)	12767-79-2
2,2',3,5,6,6'-hexachlorobiphenyl	68194-09-2	dichlorobiphenyl	25512-42-9
2,2',3,5,6'-pentachlorobiphenyl	73575-55-0	heptachlorobiphenyl	28655-71-2
2,2',3,5,6-pentachlorobiphenyl	73575-56-1	Kanechlor 500	27323-18-8
2,2',3,5'-tetrachlorobiphenyl	41464-39-5	Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8
2,2',3,5-tetrachlorobiphenyl	70362-46-8	Monomethyl-dichloro-diphenyl methane	81161-70-8
2,2',3,6,6',?-hexachlorobiphenyl	111276-74-5	Monomethyl-tetrachloro-diphenyl methane	76253-60-6
2,2',3,6,6'-pentachlorobiphenyl	73575-54-9	octachlorobiphenyl	31472-83-0
2,2',3,6'-tetrachlorobiphenyl	41464-47-5	pentachlorobiphenyl	25429-29-2
2,2',3,6-tetrachlorobiphenyl	70362-45-7	Terphenyls	26140-60-3
2,2',4,4',5,6'-hexachlorobiphenyl	60145-22-4	tetrachlorobiphenyl	26914-33-0
2,2',4,4',6,6'-hexachlorobiphenyl	33979-03-2	trichlorobiphenyl	25323-68-6
4,4'-dichlorobiphenyl	2050-68-2	3-chlorobiphenyl	2051-61-8
Decachloro-1,1'-biphenyl	2051-24-3	4-chlorobiphenyl	2051-62-9
2-chlorobiphenyl	2051-60-7		

Table 4.17 Volatile esters of bromoacetic acids

Substance	CAS number
Butyl bromoacetate	18991-98-5
Propyl bromoacetate	35223-80-4
Ethyl bromoacetate	105-36-2
Methyl bromoacetate	96-32-2

Table 4.18 Beryllium and its compounds

Substance	CAS number	Substance	CAS number
Beryllium	7440-41-7	Beryllium phosphate	13598-15-7
Beryllium aluminum alloy	12770-50-2	Beryllium phosphide	58127-61-0
Beryllium boride (Be2B)	12536-51-5	Beryllium phosphide (BeP2)	57620-29-8
Beryllium boride (Be4B)	12536-52-6	Beryllium selenide (BeSe)	12232-25-6
Beryllium boride (BeB2)	12228-40-9	Beryllium sulfate	13510-49-1
Beryllium boride (BeB6)	12429-94-6	Beryllium sulfate tetrahydrate	7787-56-6
Beryllium bromide (BeBr2)	7787-46-4	Beryllium sulfide (BeS)	13598-22-6
Beryllium carbide (Be2C)	506-66-1	Beryllium telluride (BeTe)	12232-27-8
Beryllium carbonate	13106-47-3	Beryllium zinc silicate	25638-88-4
Beryllium carbonate	66104-24-3	Beryllium zinc silicate	39413-47-3
Beryllium di(acetate)	543-81-7	Bis(pentane-2,4-dionato-O,O')beryllium	10210-64-7
Beryllium fluoride	12323-05-6	Diethylberyllium	542-63-2
Beryllium fluoride	7787-49-7	Disodium tetrafluoroberyllate	13871-27-7

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Substance	CAS number	Substance	CAS number
Beryllium hydroxide	13327-32-7	Hexakis[μ-(acetato-O:O')]-μ4-oxotetraberyllium	19049-40-2
Beryllium chloride	7787-47-5	Nitric acid, beryllium salt, tetrahydrate	13510-48-0
Beryllium iodide (BeI ₂)	7787-53-3	Phosphoric acid, beryllium salt	35089-00-0
Beryllium nitrate	13597-99-4	Phosphoric acid, beryllium salt (2:3)	13598-26-0
Beryllium nitrate trihydrate	7787-55-5	Silicic acid (H ₄ SiO ₄), beryllium salt (1:2)	15191-85-2
Beryllium nitride (Be ₃ N ₂)	1304-54-7	Silicic acid, beryllium salt	58500-38-2
Beryllium oxide (BeO)	1304-56-9		

Table 4.19 Dibutyltin compounds (DBT)

Substance	CAS number
Dibutyltin	7324-74-5
Dibutyltin bis(benzyl maleate); Benzyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-1-phenyl-2,7,9-trioxa-8-stannatri d eca-4,11-dien-13-oate;	7324-74-5
Dibutyltin diacetate	1067-33-0
Dibutyltin dilaurate	77-58-7
Dibutyltin maleate	78-04-6
Dibutyltin oxide	818-08-6
Other Dibutyltin compounds	

Table 4.20 Tri-substituted organostannic compounds

Substance	CAS number	Substance	CAS number
Bis(tributyltin)2,3-dibromosuccinate	31732-71-5	Tributyltinchloride	1461-22-9 7342-38-3
Bis(tributyltin)fumalate	6454-35-9	Tributyltinlaurate	3090-36-6
Bis(tributyltin)maleate	14275-57-1	Tributyltinmethacrylate	2155-70-6
Bis(tributyltin)phthalate	4782-29-0	Tributyltinsulfamate	6517-25-5
Copolymer of alkyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	67772-01-4		18380-71-7
			18380-72-8
			47672-31-1
		Triphenyltin fattyacid((9-11)salt)	94850-90-5
Other tri-substituted organostannic compounds	-	Triphenyltinacetate	900-95-8
Tributyl Tin Oxide (TBTO)	56-35-9	Triphenyltinfluoride	379-52-2
Tributyltin cyclopentane carbonate=mixture	85409-17-2	Triphenyltinhydroxide	76-87-9

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Substance	CAS number	Substance	CAS number
Tributyltin-1, 2,3,4,4a, 4b, 5,6,10,10a-decahydro-7-isopropyl-1, 4a-dimethyl-1-phenanthrenecarboxylatemix	26239-64-5	Triphenyltinchloride	639-58-7
Tributyltinacetate	56-36-0	Triphenyltinchloroacetate	7094-94-2
Tributyltinfluoride	1983-10-4	Triphenyltin-N, N-dimethyldithiocarbamate	1803-12-9

Table 4.21 Perfluorooctane sulfonate (PFOS)

Substance	CAS number	Substance	CAS number
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)-sulfonyl]amino]ethyl acrylate and vinylidene chloride	306975-62-2	Perfluorooctane sulfonate ammonium salt	29081-56-9
C8F17SO2X (X=OH, metal salt, halide, amide and other derivatives including polymers)	Various	Perfluorooctane sulfonate lithium salt	29457-72-5
Compounds that contain C8F17SO2, C8F17SO3 or C8F17SO2N moieties	Various	Perfluorooctane sulfonate potassium salt	2795-39-3
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7	PFOS Amide	754-91-6
Perfluoro-1-octanesulfonyl fluoride	307-35-7	PFOS Sodium Salt	4021-47-0
Perfluorooctane sulfonate acid	1763-23-1	PFOS Triphenylsulfonium Salt	144089-15-6
Perfluorooctane sulfonate anion	45298-90-6	Tetraethylammoniumheptadecafluorooctansulfonate	56773-42-3

Table 4.22 Perfluorooctanic acid (PFOA) and individual salts and esters

Material	CAS number	Material	CAS number
Ethyl PFOA	3108-24-5	PFOA Ammonium Salt	3825-26-1
Methyl PFOA	376-27-2	PFOA Potassium Salt	2395-00-8
Perfluorooctanoyl fluoride	335-66-0	PFOA Silver Salt	335-93-3
PFOA	335-67-1	PFOA Sodium Salt	335-95-5

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Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-	1882 109- 59-2	(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]dimethylammoniu m	9377 6-13- 7
Hexanoic acid, 2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluoromethyl)-	1812 247- 20-3	(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]mmon ium	9377 6-15- 9
Hexanoic acid, 2,3,4,4,5,5,6,6,6-nonafluoro-2,3-bis(trifluoromethyl)-	1812 247- 18-9	Diammonium 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl phosphate	9385 7-44- 4
Hexanoic acid, 2,2,3,3,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-	1144 512- 36-6	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,1 3,14,14,15,15,16,16,17,18,18,18- dotriacontafuoro-17-(trifluoromethyl)octadecyl acrylate	9415 8-63- 1
Hexanoic acid, 2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-	1144 512- 34-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,1 3,14,14,15,16,16,16-octacosafuoro-15- (trifluoromethyl)hexadecyl methacrylate	9415 8-64- 2
Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-	9090 09- 42-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,1 3,14,14,15,15,16,16,17,18,18,18- dotriacontafuoro-17-(trifluoromethyl)octadecyl methacrylate	9415 8-65- 3
Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-	2076 78- 51-1	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,1 3-henicosafuoro-2-hydroxytridecyl dihydrogen phosphate	9415 8-70- 0

Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-	3560 5- 76-6	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-pentacosafuoropentadecan-2-ol	9415 9-79- 2
Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	9824 1- 25-9	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-henicosafuorotridecan-2-ol	9415 9-80- 5
Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	2785 4- 31-5	1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)pentadecan-2-ol	9415 9-82- 7
2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-	7088 7- 84-2	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-icosafuoro-12-(trifluoromethyl)tridecan-1-ol	9415 9-83- 8
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1-(dihydrogen phosphate)	5767 8- 03-2	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl phosphate	9420 0-45- 0
Hexanoic acid, 2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-	1882 109- 80-9	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl phosphate	9420 0-46- 1

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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)	5351 7- 98-9	Diammonium 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-pentacosafuoro-2-hydroxypentadecyl phosphate	9420 0-47- 2
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)	8968 5- 61-0	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-2-hydroxyheptadecyl phosphate	9420 0-48- 3
Phosphine, tris[4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]-	3254 59- 92-5	Diammonium 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 phosphate	9420 0-50- 7
Palladium, dichlorobis[tris[4- (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]phosphine-κP]-	3264 75- 46-1	Diammonium 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 phosphate	9420 0-51- 8
Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-	1882 109- 58-1	Diammonium 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 phosphate	9420 0-52- 9
Hexanoic acid, 2,3,3,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-	1812 247- 19-0	Carbamic acid, [2-(sulfothio)ethyl]-, C-(γ-ω-perfluoro-C6-9-alkyl) esters, monosodium salts	9537 0-51- 7
Hexanoic acid, 3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-	1812 247- 17-8	Triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)silane	1019 47- 16-4
Hexanoic acid, 2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-	1192 593- 79-5	1H,1H,2H,2H-Perfluorodecyltrichlorosilane	7856 0-44- 8
Hexanoic acid, 2,2,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-	1144 512- 35-5	Trimethoxy(1H,1H,2H,2H-heptadecafluorodecyl)silane	8304 8-65- 1

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Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-	1144 512- 18-4	Perfluorooctylethyldimethylchlorosilane	7461 2-30- 9
Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-	7052 40- 04-6	1-bromohenicosafluorodecane	307- 43-7
Isooctanoic acid, pentadecafluoro-	1231 16- 17-6	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-12-iodododecane	307- 60-8
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-	1516 6- 06-0	Nonacosafuoro-1-iodotetradecane	307- 63-1
Octadecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	9995 5- 83-6	Henicosafluoro-10-iododecane	423- 62-1
Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)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-heptadecafluorodecyl) ester	3029 11- 86-0	Heptadecafluoro-1-iodooctane	507- 63-1
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C4–10-alkyl)thio]methyl] derivatives, phosphates, ammonium salts	1482 40- 85-1	Icosafluoro-10-iodo-2-(trifluoromethyl)decane	677- 93-0
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6–12-alkyl)thio]methyl] derivatives, phosphates, ammonium salts	1482 40- 87-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecan-1-ol	678- 39-7
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts	1482 40- 89-5	Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate	678- 41-1
Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-[(γ-ω-perfluoro-C8-20-alkyl)thio]propyl] ethers	1831 46- 60-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecanol	865- 86-1
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio]derivs., compds. with diethanolamine	7160 8- 61-2	Nonadecafluoro-9-iodononane	558- 97-4
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ-ω-perfluoro-C8-14-alkyl acrylate	1297 83- 45-5	N-ethylheptadecafluorooctanesulphonamide	4151- 50-2

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2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and γ - ω -perfluoro-C8-14-alkyl acrylate	1440 31- 01-6	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-nonacosafuorohexadecyl methacrylate	4980-53-4
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, homopolymer	7404 9- 08-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl methacrylate	6014-75-1
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl 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-propenoate	6510 4- 45-2	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	1895-26-7
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	5351 5- 73-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl methacrylate	1996-88-9
Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-	1882 109- 81-0	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iododecane	2043-53-0
Hexanoic acid, 2,2,3,3,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-	1882 109- 79-6	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-henicosafuoro-12-iodododecane	2043-54-1
Hexanoic acid, 2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-	1882 109- 78-5	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl methacrylate	2144-54-9
Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-	1882 109- 77-4	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)dodecane	3248-61-1

Pentanoic acid, 2,3,3,4,4,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-	1882 109-76-3	Octacosafuoro-14-iodo-2-(trifluoromethyl)tetradecane	3248-63-3
Pentanoic acid, 2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-	1882 109-75-2	3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-oxooctyl)amino]benzenesulphonyl chloride	2421 6-05-5
Pentanoic acid, 2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-	1882 109-74-1	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl acrylate	2790 5-45-9
Pentanoic acid, 2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-	1882 109-73-0	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	3004 6-31-2
Pentanoic acid, 2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-	1882 109-72-9	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecene	3038 9-25-4
Pentanoic acid, 2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-	1882 109-71-8	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	1608 3-78-6
Pentanoic acid, 3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-	1882 109-70-7	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	1608 3-87-7
Pentanoic acid, 2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882 109-68-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl acrylate	1774 1-60-5
Pentanoic acid, 2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882 109-67-2	Chromium(3+) perfluorooctanoate	6814 1-02-6
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882 109-66-1	Propanamide, 3-[(γ-ω-perfluoro-C4-10-alkyl)thio] derivs.	6818 7-42-8

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Pentanoic acid, 2,3,3,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882 109-65-0	Alkyl iodides, C4-20, γ - ω -perfluoro	6818 8-12-5
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882 109-64-9	Fatty acids, C7-13, perfluoro	6833 3-92-6
Pentanoic acid, 3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882 109-63-8	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	6841 2-69-1
Pentanoic acid, 3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-	1882 109-69-4	2-Propenoic acid, γ - ω -perfluoro-C8-14-alkyl esters	8563 1-54-5
Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-	1882 109-62-7	2-Propenoic acid, perfluoro-C8-16-alkyl esters	8568 1-64-7
Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-	1882 109-61-6	N-(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide	8593 8-56-3
Butanoic acid, 2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl]-	1882 109-60-5	Octanoic acid, pentadecafluoro-, branched	9048 0-55-0
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1)	1305 8-06-5	Octanoic acid, pentadecafluoro-, branched, ammonium salt	9048 0-56-1
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)	1195 164-59-0	Alkyl iodides, C6-18, perfluoro	9062 2-71-2
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)	1974 2-57-5	Amides, C7-19, α - ω -perfluoro-N,N-bis(hydroxyethyl)	9062 2-99-4
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)	6143 6-04-2	Fatty acids, C7-19, perfluoro	9103 2-01-8
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)	2945 7-73-6	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl acrylate	9161 5-22-4

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Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)	1801 7- 22-6	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	7135 6-38- 2
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)	1573 9- 82-9	Carboxylic acids, C7-13, perfluoro, ammonium salts	7296 8-38- 8
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)	1571 5- 47-6	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-icosadecafluoro-11-(trifluoromethyl)dodecyl methacrylate	7425 6-14- 7
Bis(perfluorooctyl)phosphinic acid	4014 3- 79-1	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosadecafluoro-13-(trifluoromethyl)tetradecyl methacrylate	7425 6-15- 8
Perfluorohexylperfluorooctyl phosphinate	6108 00- 34-5	Heptadecafluoro-1-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]nonene	8402 9-60- 7
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosadecafluoro-11-iodo-	307- 50-6	Perfluorooctanoic anhydride	3349 6-48- 9
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-hentriacontadecafluoro-15-iodo-	335- 79-5	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	3918 6-68- 0
Tridecane, 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-heptacosadecafluoro-13-iodo-	376- 04-5	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-pentacosadecafluorotetradecanol	3923 9-77- 5
Alkyl iodides, C10-12, γ-ω-perfluoro	6839 0- 33-0	N-[3-[bis(2-hydroxyethyl)amino]propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide	4135 8-63- 8

<p>2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- eicosafuoro-</p>	<p>7088 7- 94-4</p>	<p>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,1 4,14,14-tetracosafuoro-13- (trifluoromethyl)tetradecyl acrylate</p>	<p>5295 6-82- 8</p>
<p>Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- heneicosafuoro-</p>	<p>5382 6- 13-4</p>	<p>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- heneicosafuorododecyl dihydrogen phosphate</p>	<p>5767 8-05- 4</p>
<p>2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-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-pentacosafuorotetradecyl 2- propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluorooctyl 2-propenoate</p>	<p>1155 92- 83-1</p>	<p>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,1 3,14,14,15,15,16,16,16- nonacosafuorohexadecanol</p>	<p>6069 9-51- 6</p>

<p>2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-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, 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-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-tritriacontafluorooctadecyl 2-propenoate</p>	<p>1169 84- 14-6</p>	<p>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</p>	<p>6329 5-27- 2</p>
<p>2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethylmethacrylate, Me methacrylate and perfluoro-C8-14-alkyl acrylate</p>	<p>1253 28- 29-2</p>	<p>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</p>	<p>6329 5-28- 3</p>
<p>Perfluorooctylethyldichloromethyl silane</p>	<p>3102 -79- 2</p>	<p>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</p>	<p>6329 5-29- 4</p>
<p>Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts</p>	<p>9306 2- 53-4</p>	<p>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-nonacosafuoro-16-iodohexadecane</p>	<p>6551 0-55- 6</p>

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1,1'-[oxybis[(1-methylethyleneoxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropentadecan-2-ol]	9377 6- 00-2	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodoundecane	6551 0-56- 7
(2-carboxylatoethyl)(dimethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)amino]propyl]ammonium	9377 6- 12-6		

Material	CAS number	CAS number	CAS number
Ethyl PFOA	3108-24-5	PFOA Ammonium Salt	3825-26-1
Methyl PFOA	376-27-2	PFOA Potassium Salt	2395-00-8
Perfluorooctanoyl fluoride	335-66-0	PFOA Silver Salt	335-93-3
PFOA	335-67-1	PFOA Sodium Salt	335-95-5
Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-	1882109-59-2	(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]dimethylammonium	93776-13-7
Hexanoic acid, 2,2,4,4,5,5,6,6-nonafluoro-3,3-bis(trifluoromethyl)-	1812247-20-3	(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	93776-15-9
Hexanoic acid, 2,3,4,4,5,5,6,6-nonafluoro-2,3-bis(trifluoromethyl)-	1812247-18-9	Diammonium 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl phosphate	93857-44-4
Hexanoic acid, 2,2,3,3,4,5,6,6-nonafluoro-4,5-bis(trifluoromethyl)-	1144512-36-6	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafuoro-17-(trifluoromethyl)octadecyl acrylate	94158-63-1

Material	CAS number		CAS number
Hexanoic acid, 2,2,3,3,4,4,6,6,6-nonafluoro- 5,5-bis(trifluoromethyl)-	1144512-34-4	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 methacrylate	94158-64-2
Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-	909009-42-3	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-dotriacontafuoro-17-(trifluoromethyl)octadecyl methacrylate	94158-65-3
Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-	207678-51-1	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	94158-70-0
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-	35605-76-6	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-pentacosafuoropentadecan-2-ol	94159-79-2
Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9	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-henicosafuorotridecan-2-ol	94159-80-5
Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	27854-31-5	1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)pentadecan-2-ol	94159-82-7

Material	CAS number		CAS number
2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-	70887-84-2	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-icosadecafluoro-12-(trifluoromethyl)tridecan-1-ol	94159-83-8
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1-(dihydrogen phosphate)	57678-03-2	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl phosphate	94200-45-0
Hexanoic acid, 2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-	1882109-80-9	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosadecafluoro-2-hydroxytridecyl phosphate	94200-46-1
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)	53517-98-9	Diammonium 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-pentacosadecafluoro-2-hydroxypentadecyl phosphate	94200-47-2
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)	89685-61-0	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosadecafluoro-2-hydroxyheptadecyl phosphate	94200-48-3
Phosphine, tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]-	325459-92-5	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosadecafluoro-2-hydroxy-12-(trifluoromethyl)tridecyl phosphate	94200-50-7
Palladium, dichlorobis[tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]phosphine-κP]-	326475-46-1	Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosadecafluoro-2-hydroxy-14-(trifluoromethyl)pentadecyl phosphate	94200-51-8

Material	CAS number		CAS number
Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-	1882109-58-1	Diammonium 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 phosphate	94200-52-9
Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-	1812247-19-0	Carbamic acid, [2-(sulfothio)ethyl]-, C-(γ - ω -perfluoro-C6-9-alkyl) esters, monosodium salts	95370-51-7
Hexanoic acid, 3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-	1812247-17-8	Triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)silane	101947-16-4
Hexanoic acid, 2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-	1192593-79-5	1H,1H,2H,2H-Perfluorodecyltrichlorosilane	78560-44-8
Hexanoic acid, 2,2,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-	1144512-35-5	Trimethoxy(1H,1H,2H,2H-heptadecafluorodecyl)silane	83048-65-1
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-	1144512-18-4	Perfluorooctylethyldimethylchlorosilane	74612-30-9
Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-	705240-04-6	1-bromohenicosafuorodecane	307-43-7
Isooctanoic acid, pentadecafluoro-	123116-17-6	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-12-iodododecane	307-60-8
Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-	15166-06-0	Nonacosafuoro-1-iodotetradecane	307-63-1
Octadecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	99955-83-6	Henicosafuoro-10-iodododecane	423-62-1
Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)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-heptadecafluorodecyl)	302911-86-0	Heptadecafluoro-1-iodooctane	507-63-1

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Material	CAS number		CAS number
ester			
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C4–10-alkyl)thio)methyl] derivatives, phosphates, ammonium salts	148240-85-1	Icosafluoro-10-iodo-2-(trifluoromethyl)decane	677-93-0
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6–12-alkyl)thio)methyl] derivatives, phosphates, ammonium salts	148240-87-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecan-1-ol	678-39-7
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio)methyl] derivs., phosphates, ammonium salts	148240-89-5	Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate	678-41-1
Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-[(γ-ω-perfluoro-C8-20-alkyl)thio]propyl] ethers	183146-60-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecanol	865-86-1
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio]derivs., compds. with diethanolamine	71608-61-2	Nonadecafluoro-9-iodononane	558-97-4
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ-ω-perfluoro-C8-14-alkyl acrylate	129783-45-5	N-ethylheptadecafluorooctanesulphonamide	4151-50-2
2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and γ-ω-perfluoro-C8-14-alkyl acrylate	144031-01-6	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-nonacosafuorohexadecyl methacrylate	4980-53-4
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, homopolymer	74049-08-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl methacrylate	6014-75-1

Material	CAS number		CAS number
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-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-propenoate	65104-45-2	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	1895-26-7
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	53515-73-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl methacrylate	1996-88-9
Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-	1882109-81-0	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodododecane	2043-53-0
Hexanoic acid, 2,2,3,3,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-	1882109-79-6	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-henicosafuoro-12-iodododecane	2043-54-1
Hexanoic acid, 2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-	1882109-78-5	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,11,11,12,12,12-henicosafuorododecyl methacrylate	2144-54-9
Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-	1882109-77-4	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)dodecane	3248-61-1
Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-	1882109-76-3	Octacosafuoro-14-iodo-2-(trifluoromethyl)tetradecane	3248-63-3
Pentanoic acid, 2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-	1882109-75-2	3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]benzenesulphonyl chloride	24216-05-5

Material	CAS number		CAS number
Pentanoic acid, 2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-	1882109-74-1	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10-heptadecafluorodecyl acrylate	27905-45-9
Pentanoic acid, 2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-	1882109-73-0	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-pentacosafiuoro-14-iodotetradecane	30046-31-2
Pentanoic acid, 2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-	1882109-72-9	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,11,11,12,12,12-henicosafiuorododecene	30389-25-4
Pentanoic acid, 2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-	1882109-71-8	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-octacosafiuoro-2-hydroxy-16-(trifluoromethyl)heptadecyl acrylate	16083-78-6
Pentanoic acid, 3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-	1882109-70-7	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafiuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl acrylate	16083-87-7
Pentanoic acid, 2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882109-68-3	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,11,11,12,12,12-henicosafiuorododecyl acrylate	17741-60-5
Pentanoic acid, 2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882109-67-2	Chromium(3+) perfluorooctanoate	68141-02-6
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882109-66-1	Propanamide, 3-[(γ-ω-perfluoro-C4-10-alkyl)thio] derivs.	68187-42-8
Pentanoic acid, 2,3,3,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882109-65-0	Alkyl iodides, C4-20, γ-ω-perfluoro	68188-12-5
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882109-64-9	Fatty acids, C7-13, perfluoro	68333-92-6

Material	CAS number		CAS number
Pentanoic acid, 3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882109-63-8	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	68412-69-1
Pentanoic acid, 3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-	1882109-69-4	2-Propenoic acid, γ-ω-perfluoro-C8-14-alkyl esters	85631-54-5
Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-	1882109-62-7	2-Propenoic acid, perfluoro-C8-16-alkyl esters	85681-64-7
Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-	1882109-61-6	N-(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide	85938-56-3
Butanoic acid, 2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl]-	1882109-60-5	Octanoic acid, pentadecafluoro-, branched	90480-55-0
Hexanoic acid, 2,3,3,4,4,5,5,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1)	13058-06-5	Octanoic acid, pentadecafluoro-, branched, ammonium salt	90480-56-1
Hexanoic acid, 2,3,3,4,4,5,5,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)	1195164-59-0	Alkyl iodides, C6-18, perfluoro	90622-71-2
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)	19742-57-5	Amides, C7-19, α-ω-perfluoro-N,N-bis(hydroxyethyl)	90622-99-4
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)	61436-04-2	Fatty acids, C7-19, perfluoro	91032-01-8
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)	29457-73-6	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl acrylate	91615-22-4
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)	18017-22-6	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	71356-38-2

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Material	CAS number		CAS number
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)	15739-82-9	Carboxylic acids, C7-13, perfluoro, ammonium salts	72968-38-8
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)	15715-47-6	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-icosafuoro-11-(trifluoromethyl)dodecyl methacrylate	74256-14-7
Bis(perfluorooctyl)phosphinic acid	40143-79-1	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	74256-15-8
Perfluorohexylperfluorooctyl phosphinate	610800-34-5	Heptadecafluoro-1-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]nonene	84029-60-7
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafuoro-11-iodo-	307-50-6	Perfluorooctanoic anhydride	33496-48-9
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-hentriacontafuoro-15-iodo-	335-79-5	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	39186-68-0
Tridecane, 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-heptacosafuoro-13-iodo-	376-04-5	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	39239-77-5
Alkyl iodides, C10-12, γ-ω-perfluoro	68390-33-0	N-[3-[bis(2-hydroxyethyl)amino]propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide	41358-63-8
2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-icosafuoro-	70887-94-4	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	52956-82-8

Material	CAS number		CAS number
Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosaf fluoro-	53826-13-4	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosaf luorododecyl dihydrogen phosphate	57678-05-4
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosaf luorododecyl 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-pentacosaf luorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate	115592-83-1	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-nonacosaf luorohexadecanol	60699-51-6
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosaf luorododecyl 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-nonacosaf luorohexadecyl 2-propenoate, 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-pentacosaf luorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-tritriacontaf luorooctadecyl 2-propenoate	116984-14-6	4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosaf luoro-2-hydroxy-12-(trifluoromethyl)tridecyl dihydrogen phosphate	63295-27-2

Material	CAS number		CAS number
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethylmethacrylate, Methyl methacrylate and perfluoro-C8-14-alkyl acrylate	125328-29-2	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	63295-28-3
Perfluorooctylethyldichloromethyl silane	3102-79-2	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-octacosafuoro-2-hydroxy-16-(trifluoromethyl)heptadecyl dihydrogen phosphate	63295-29-4
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts	93062-53-4	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-nonacosafuoro-16-iodohexadecane	65510-55-6
1,1'-[oxybis[(1-methylethylene)oxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropentadecan-2-ol]	93776-00-2	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodoundecane	65510-56-7
(2-carboxylatoethyl)(dimethyl)[3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)amino]propyl]ammonium	93776-12-6		

Table 4.23 Polychlorinated Naphthalenes (PCNs)

Substance	CAS number	Substance	CAS number
1,2,3,4,5,6,7-Heptachloronaphthalene	58863-14-2	1,2,6,8-Tetrachloronaphthalene	67922-24-1
1,2,3,4,5,6,8-Heptachloronaphthalene	58863-15-3	1,2,6-Trichloronaphthalene	51570-44-6
1,2,3,4,5,6-Hexachloronaphthalene	58877-88-6	1,2,7,8-Tetrachloronaphthalene	149864-82-4
1,2,3,4,5,7-Hexachloronaphthalene	67922-27-4	1,2,7-Trichloronaphthalene	55720-34-8
1,2,3,4,5,8-Hexachloronaphthalene	103426-93-3	1,2,8-Trichloronaphthalene	55720-35-9
1,2,3,4,5-Pentachloronaphthalene	67922-25-2	1,2-Dichloronaphthalene	2050-69-3
1,2,3,4,6,7-Hexachloronaphthalene	103426-96-6	1,3,5,7-Tetrachloronaphthalene	53555-64-9
1,2,3,4,6-Pentachloronaphthalene	67922-26-3	1,3,5,8-Tetrachloronaphthalene	31604-28-1
1,2,3,4-Tetrachloronaphthalene	20020-02-4	1,3,5-Trichloronaphthalene	51570-43-5
1,2,3,5,6,7-Hexachloronaphthalene	103426-97-7	1,3,6,7-Tetrachloronaphthalene	55720-42-8
1,2,3,5,6,8-Hexachloronaphthalene	103426-95-5	1,3,6,8-Tetrachloronaphthalene	150224-15-0
1,2,3,5,6-Pentachloronaphthalene	150224-18-3	1,3,6-Trichloronaphthalene	55720-36-0

Substance	CAS number	Substance	CAS number
1,2,3,5,7,8-Hexachloronaphthalene	103426-94-4	1,3,7-Trichloronaphthalene	55720-37-1
1,2,3,5,7-Pentachloronaphthalene	53555-65-0	1,3,8-Trichloronaphthalene	55720-38-2
1,2,3,5,8-Pentachloronaphthalene	150224-24-1	1,3-Dichloronaphthalene	2198-75-6
1,2,3,5-Tetrachloronaphthalene	53555-63-8	1,4,5,8-Tetrachloronaphthalene	3432-57-3
1,2,3,6,7,8-Hexachloronaphthalene	17062-87-2	1,4,5-Trichloronaphthalene	2437-55-0
1,2,3,6,7-Pentachloronaphthalene	150224-16-1	1,4,6,7-Tetrachloronaphthalene	55720-43-9
1,2,3,6,8-Pentachloronaphthalene	150224-23-0	1,4,6-Trichloronaphthalene	2437-54-9
1,2,3,6-Tetrachloronaphthalene	149864-78-8	1,4-Dichloronaphthalene	1825-31-6
1,2,3,7,8-Pentachloronaphthalene	150205-21-3	1,5-Dichloronaphthalene	1825-30-5
1,2,3,7-Tetrachloronaphthalene	55720-41-7	1,6,7-Trichloronaphthalene	55720-39-3
1,2,3,8-Tetrachloronaphthalene	149864-81-3	1,6-Dichloronaphthalene	2050-72-8
1,2,3-Trichloronaphthalene	50402-52-3	1,7-Dichloronaphthalene	2050-73-9
1,2,4,5,6,8-Hexachloronaphthalene	90948-28-0	1,8-Dichloronaphthalene	2050-74-0
1,2,4,5,6-Pentachloronaphthalene	150224-20-7	1-Chloronaphthalene	90-13-1
1,2,4,5,7,8-Hexachloronaphthalene	103426-92-2	2,3,6,7-Tetrachloronaphthalene	34588-40-4
1,2,4,5,7-Pentachloronaphthalene	150224-19-4	2,3,6-Trichloronaphthalene	55720-40-6
1,2,4,5,8-Pentachloronaphthalene	150224-25-2	2,3-Dichloronaphthalene	2050-75-1
1,2,4,5-Tetrachloronaphthalene	6733-54-6	2,6-Dichloronaphthalene	2065-70-5
1,2,4,6,7-Pentachloronaphthalene	150224-17-2	2,7-Dichloronaphthalene	2198-77-8
1,2,4,6,8-Pentachloronaphthalene	150224-22-9	2-Chloronaphthalene	91-58-7
1,2,4,6-Tetrachloronaphthalene	51570-45-7	Dichloronaphthalene	28699-88-9
1,2,4,7,8-Pentachloronaphthalene	150224-21-8	Heptachloronaphthalene	32241-08-0
1,2,4,7-Tetrachloronaphthalene	67922-21-8	Hexachloronaphthalene	1335-87-1
1,2,4,8-Tetrachloronaphthalene	6529-87-9	Chloronaphthalene	25586-43-0
1,2,4-Trichloronaphthalene	50402-51-2	Naphthalene, chloro derivatives	70776-03-3
1,2,5,6-Tetrachloronaphthalene	67922-22-9	Pentachloronaphthalene	1321-64-8
1,2,5,7-Tetrachloronaphthalene	67922-23-0	Perchloronaphthalene	2234-13-1
1,2,5,8-Tetrachloronaphthalene	149864-80-2	Tetrachloronaphthalene	1335-88-2
1,2,5-Trichloronaphthalene	55720-33-7	Trichloronaphthalene	1321-65-9
1,2,6,7-Tetrachloronaphthalene	149864-79-9		

Table 4.24 Radioactive Substances

Substance	CAS number	Substance	CAS number
Americium	7440-35-9	Lead 214	15067-28-4
Americium-241	14596-10-2	Lead uranate pigment (9 Cl)	85536-79-4
Cesium	7440-46-2	Nickel uranium oxide (NiU3O10)	15780-33-3
Cesium-137	10045-97-3	Nickel uranyl tetraacetate, of uranium depleted in uranium-235	71767-12-9
Lead 198	16646-00-7	Plutonium	7440-07-5
Lead 199	27486-00-6	Radium	7440-14-4
Lead 200	16645-99-1	Radon	10043-92-2
Lead 201	17239-87-1	Strontium	7440-24-6

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Substance	CAS number	Substance	CAS number
Lead 202	15752-86-0	Strontium	7440-29-6
Lead 203	14687-25-3	Strontium-90	10098-97-2
Lead 205	14119-28-9	Thorium	7440-29-1
Lead 209	14119-30-3	Thorium Dioxide	1314-20-1
Lead 210	14255-04-0	Uranium	7440-61-6
Lead 211	15816-77-0	Uranium	7440-61-1
Lead 212	15092-94-1		

Table 4.25 Short Chain Chlorinated Paraffins (C10-13, Cl >50%)

Substance	CAS number
Alkanes, C10-12, chloro	108171-26-2
Alkanes, C10-13, chloro	85535-84-8
Alkanes, C12-13, chloro	71011-12-6
Alkanes, chloro	61788-76-9

Table 4.26 Dioctyl tin compounds (DOT)

Substance	CAS number
Di(n-octyl)tin bis(isooctylthioglycolate) ; Diisooctyl 2,2'-[[dioctylstannylene]bis(thio)]diacetate	26401-97-8
Dioctyl tin maleate 16091-18-2	16091-18-2
Dioctyl Tin Oxide 870-08-6	870-08-6
Dioctyltin 15231-44-4	15231-44-4
Dioctyltin dichloride; Stannane, dichlorodioctyl-, 3542-36-7	3542-36-7
Dioctyltin dilaurate 3648-18-8	3648-18-8

Table 4.27 Fluorinated Greenhouse Gases (PFC, SF6, HFC)

Substance	CAS number	Substance	CAS number
1,1,1,2,2,3-Hexafluoro-propane	677-56-5	Decafluorobutane	355-25-9
1,1,1,2,3,3-Hexafluoropropane	431-63-0	Difluoromethane	75-10-5
1,1,1,2-Tetrafluoroethane	811-97-2	Dodecafluoropentane	678-26-2
1,1,1,3,3,3-Hexafluoropropane	690-39-1	Hexafluoroethane	76-16-4
1,1,1,3,3-Pentafluorobutane	406-58-6	Methyl fluoride	593-53-3
1,1,1,3,3-Pentafluoropropane	460-73-1	Octafluorocyclobutane	115-25-3
1,1,1-Trifluoroethane	420-46-2	Octafluoropropane	76-19-7
1,1,2,2,3-Pentafluoropropane	679-86-7	Pentafluoroethane	354-33-6
1,1,2,2-Tetrafluoroethane	359-35-3	Sulfur Hexafluoride	2551-62-4
1,1,2-Trifluoroethane	430-66-0	Tetradecafluorohexane	355-42-0
1,1-Difluoroethane	75-37-6	Tetrafluoromethane	75-73-0
2H,3H-Decafluoropentane	138495-42-8	Trifluoromethane	75-46-7
2H-Heptafluoropropane	431-89-0		

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Table 4.28 Halogenated Dioxins and Furans

Substance	CAS number	Substance	CAS number
1,2,3,4,6,7,8,9-Octa-CDD	3268-87-9	1,2,3,7,8,9-Hexa-CDF	72918-21-9
1,2,3,4,6,7,8,9-Octa-CDF	39001-02-0	1,2,3,7,8-Penta-BDD	109333-34-8
1,2,3,4,6,7,8-Hepta-CDD	35822-46-9	1,2,3,7,8-Penta-BDF	109333-34-8
1,2,3,4,6,7,8-Hepta-CDF	67562-39-4	1,2,3,7,8-Penta-CDD	40321-76-4
1,2,3,4,7,8,9-Hepta-CDF	55673-89-7	1,2,3,7,8-Penta-CDF	57117-41-6
1,2,3,4,7,8-Hexa-BDD	110999-44-5	2,3,4,6,7,8-Hexa-CDF	60851-34-5
1,2,3,4,7,8-Hexa-CDD	39227-28-6	2,3,4,7,8-Penta-BDF	131166-92-2
1,2,3,4,7,8-Hexa-CDF	70648-26-9	2,3,4,7,8-Penta-CDF	57117-31-4
1,2,3,6,7,8-Hexa-BDD	110999-45-6	2,3,7,8-Tetra-BDD	50585-81-6
1,2,3,6,7,8-Hexa-CDD	57653-85-7	2,3,7,8-Tetra-BDF	67733-57-7
1,2,3,6,7,8-Hexa-CDF	57117-44-9	2,3,7,8-Tetra-CDD	1746-01-6
1,2,3,7,8,9-Hexa-BDD	110999-46-7	2,3,7,8-Tetra-CDF	51207-31-9
1,2,3,7,8,9-Hexa-CDD	19408-74-3		

Table 4.29 Halons

Substance	CAS number	Substance	CAS number
1,1,1-TRIBROMO-2,2,2-TRIFLUOROETHANE	354-48-3	DIBROMODIFLUOROMETHANE,HALON 1202,DIFLUORODIBROMOMETHANE, DIBROMODIFLUOROMETHANE (HALON-1202)	75-61-6
1,1-DIBROMO-1,2,2,2-TETRAFLUROETHANE	27336-23-8	DIBROMODICHLOROMETHANE	594-18-3
1,1-DIBROMO-2,2-DIFLUOROETHYLENE	430-85-3	DIBROMOCHLOROMETHANE,CHLORODIBROMOMETHANE	124-48-1
1,2-DIBROMO-1,1,2-TRICHLOROETHANE	13749-38-7	DIBROMOTETRAFLUROETHANE	25497-30-7
1,2-DIBROMO-1-CHLORO-1,2,2-TRIFLUOROETHANE	354-51-8	ETHANE, 2-BROMO-1-CHLORO-1,1,2-TRIFLUORO-	354-20-1
1,2-DIBROMOPERFLUROETHANE,1,2-DIBROMO-1,1,2,2-TETRAFLUROETHANE,HALON-2402,DIBROMOTETRAFLUROETHANE (HALON-2402),1,2-DIBROMOTETRAFLUROETHANE, HALON 2402,DIBROMOTETRAFLUROETHANE (HALON 2402),ISO 1043-4	124-73-2	ETHANE, 2-BROMO-2-CHLORO-1,1,1-TRIFLUORO-, (R)-	51230-17-2
1,2-DIBROMOTETRACHLOROETHANE	630-25-1	ETHANE, 2-BROMO-2-CHLORO-1,1,1-TRIFLUORO-, (S)-	51230-18-3

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Substance	CAS number	Substance	CAS number
1-BROMO-1-CHLORO-2,2-DIFLUOROETHYLENE	758-24-7	ETHANE, TRIBROMO-, TRIBROMOETHYLENE	598-16-3
1-BROMO-2-CHLORO-1,1,2-TRIFLUOROETHANE, ETHANE, 1-BROMO-2-CHLORO-1,1,2-TRIFLUORO-	354-06-3	ETHENE, TETRABROMO-, TETRABROMOETHYLENE	79-28-7
2-BROMO-1,1-DICHLOROETHYLENE	5870-61-1	CHLOROBROMOMETHANE, BROMOCHLOROMETHANE (HALON-1011), BROMOCHLOROMETHANE	74-97-5
BROMODICHLOROFLUOROMETHANE	353-58-2	CHLOROBROMOTRIFLUOROETHANE	74925-63-6
BROMOPENTAFLUROETHANE	354-55-2	CHLORODIFLUOROBROMOMETHANE, HALON 1211, BROMOCHLORODIFLUOROMETHANE (HALON-1211), BROMOCHLORODIFLUOROMETHANE, ISO 1043-4, BROMOCHLORODIFLUOROMETHANE (HALON 1211)	353-59-3
BROMOTRIFLUOROETHYLENE	598-73-2	ISO 1043-4, METHYL BROMIDE (BROMOMETHANE), METHYL BROMIDE, BROMOMETHANE, BROMOMETHANE (METHYL BROMIDE), CURAFUME	74-83-9
BROMOTRIFLUOROMETHANE (HALON 1301), BROMOTRIFLUOROMETHANE (HALON-1301), BROMOTRIFLUOROMETHANE, TRIFLUOROBROMOMETHANE	75-63-8	Pentabromoethane	75-95-6
BROMOTRICHLOROMETHANE, METHANE, BROMOTRICHLORO-	75-62-7	TRIBROMOFLUOROMETHANE, METHANE, TRIBROMOFLURO-	353-54-8
CARBON TETRABROMIDE	558-13-4	TRIBROMOCHLOROMETHANE	594-15-0

Table 4.30 Perchlorates

Substance	CAS number	Substance	CAS number
ammonium perchlorate	7790-98-9	Perchloric acid, cobalt (2+) salt	13455-31-7
Barium perchlorate	13465-95-7	Perchloric acid, mercury(2+) salt	7616-83-3
Chromic perchlorate	13537-21-8	Perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1
Lead perchlorate	13637-76-8	Perchloric acid, zinc salt, hexahydrate	10025-64-6
Lithium Perchlorate	14797-73-0	Potassium Perchlorate	7778-74-7
Magnesium Perchlorate	10034-81-8	Sodium Perchlorate	7601-89-0

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Substance	CAS number	Substance	CAS number
Manganese(II) perchlorate hexahydrate	15364-94-0	Thallium(3+) perchlorate	15596-83-5
Nickel perchlorate	13637-71-3	zinc perchlorate	13637-61-1
Other perchlorate compounds	—		

Table 4.31 Aliphatic Chlorinated Hydrocarbons (CHCs)

Material	CAS number	Material	CAS number
1,1,1,2- Tetrachloroethane	630-20-6	Methylene chloride	75-09-2
1,1,1-Trichloroethane	71-55-6	Pentachloroethane	76-01-7
1,1,2,2- Tetrachloroethane	79-34-5	Pentachlorophenol	87-86-5
1,1,2-Trichloroethane	79-00-5	Polychlorinated Phenols and their salts	Chemical class: no CAS number assigned
1,1-Dichloroethylene (vinylidene chloride)	75-35-4	Tetrachloroethylene	127-18-4
Bis(chloromethyl)ether	542-88-1	Trichloroethylene (TCE)	79-01-6
Chloroethylene, vinyl chloride	75-01-4	Trichloromethane (Chloroform)	67-66-3
Ethene, 1,2-dichloro-	540-59-0		

Table 4.32 Phthalates, Selected Group

Substance	CAS number
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
Bis(2-methoxyethyl) phthalate	117-82-8
Di-n-hexyl phthalate (DnHP)	84-75-3
Di-n-octyl phthalate (DNOP)	117-84-0
Di-“isodecyl” phthalate (DIDP)	26761-40-0
bis(8-methylnonyl) phthalate	68515-49-1
Di-“isononyl” phthalate (DINP)	28553-12-0
bis(7-methyloctyl) phthalate	68515-48-0

Table 4.33 Phosphorus based flame retardants

Substance	CAS number	Substance	CAS number
Diethyl bis(2-hydroxyethyl)aminomethylphosphonate	2781-11-5	Tetraphenyl m-phenylene bis(phosphate)	57583-54-7
Diethyl ethylphosphonate	78-38-6	Tetraphenyl m-phenylene bis(phosphate)	61840-22-0
Dimethyl methylphosphonate	756-79-6	Triethyl phosphate	78-40-0
Diphenyl octyl phosphate	115-88-8	Trioctyl phosphate	1806-54-8
Diphenyl tolyl phosphate	26444-49-5	Triphenyl phosphate	115- 86-6
Polyphosphoric acids, ammonium salts	68333-79-9	Tris(2-butoxyethyl) phosphate	78-51-3
Red phosphorus	7723-14-0	Tris(2-ethylhexyl) phosphate	78-42-2

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Table 4.34 Amines

Substance	CAS number
Diethylamine	109-89-7
dimethylamine (DMA)	124-40-3
N,N-dimethylacetamide (DMAC)	127-19-5
N,N-dimethylformamide (DMF)	68-12-2
Nitrosamine	35576-91-1
N-methylformamide	123-39-7
N-methyl-N-nitrosoaniline (NMA)	614-00-6

Table 4.35 Antimicrobial and/or Biocidal substances

Substance	CAS number	Substance	CAS number
1,8,9,10,11,11-Hexachloro-4-oxatetracyclo[6.2.1.0(2,7).0(3,5)]undec-9-ene	6058-23-7	Endosulfan II	33213-65-9
4-Chlorophenyl) cyclopropylmethanone	6640-25-1	rel-(1R,2S,3R,4R,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	5103-74-2
Cis-Nonachlor	5103-73-1	rel-(1R,2S,3R,4S,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	5103-71-9
Endosulfan	115-29-7	rel-(1R,4S,7S,8S,9S)-2,3,4,5,6,9-Hexachlorotricyclo[5.2.1.0(4,8)]deca-2,5-diene	56534-03-3
Endosulfan I	959-98-8	Trans-Nonachlor	39765-80-5

Table 4.36 Antimony and its compounds

Substance	CAS number	Substance	CAS number
Antimony	7440-36-0	Diantimony pentoxide	1314-60-9
Antimony nitride	12333-57-2	Diantimony pentsulphide	1315-04-4
Antimony pentafluoride	7783-70-2	Diantimony tetroxide	1332-81-6
Antimony pentachloride	7647-18-9	Diantimony trioxide	1309-64-4
Antimony trifluoride	7783-56-4	Diantimony triselenide	1315-05-5
Antimony trihydride	7803-52-3	Diantimony trisulphide	1345-04-6
Antimony trichloride	10025-91-9	Diantimony tritelluride	1327-50-0
Antimony triiodide	7790-44-5		

Table 4.37 Brominated flame retardants (other than PBBs or PBDEs)

Substance	CAS number	Substance	CAS number
1,1,2,2-Tetrabromoethane	79-27-6	Chlorinated and brominated phosphate ester	125997-20-8

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Substance	CAS number	Substance	CAS number
1,2,3,4-Tetrabromobutane	1529-68-6	N,N'-Ethylene –bis-(tetrabromo-phthalimide)	32588-76-4
1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1	Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	155613-93-7
1,2-Dibromo-4-(1,2 dibromo-ethyl)-cyclo-hexane	3322-93-8	Octabromohexadecane	30262-03-4
1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	3322-93-8	Other Brominated Flame Retardants	-
1,3-Butadiene homopolymer, brominated	68441-46-3	Pentabromobenzene	608-90-2
2,3-Dibromo-2-butene-1,4-diol	3234-02-4	Pentabromo-benzyl bromide	38521-51-6
2,3-Dibromo-2-butene-1,4-diol	487270	Pentabromo-benzyl-acrylate, monomer	59447-55-1
2,4,6-tribromo-phenol	118-79-6	Pentabromo-benzyl-acrylate, polymer	59447-57-3
2,4,6-Tribromo-phenyl-alltl-ether	3278-89-5	Pentabromoethane	75-95-6
2,4,6-Tribromo-phenyl-allyl-ether	3278-89-5	Pentabromoethoxybenzene	9278-85-1
2,4-Dibromo-phenol	615-58-7	Pentabromoethylbenzene	85-22-3
2-Bromoethanol	540-51-2	Pentabromo-phenol	608-71-9
2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	20566-35-2	Pentabromo-toluene	87-83-2
3,4,5,6-Tetrabromo-1,2-benzenedicarboylic mixed esters acid, propylene with diethylene glycol and glycol	77098-07-8	Poly tribromo-styrene	57137-10-7
3,5,3',5'-Tetrabromo-bisphenol A (TBBPA)	79-94-7	Poly(2,6-dibromo-phenylene oxide)	69882-11-7
Bis(2, 3-dibromopropyl) phosphate	5412-25-9	Poly-dibromo-styrene	31780-26-4
Bis(2, 4, 6-tribromophenyl) carbonate	67990-32-3	Polystyrene, brominated	88497-56-7
Bis(2-ethylhexyl)tetrabromo-phthalate	26040-51-7	Polytetrafluoroethylene	9002-84-0
Bis(2-ethylhexyl)tetrabromo-phthalate	26040-51-7	TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
Bis(methyl)tetrabromo-phthalate	55481-60-2	TBBA carbonate oligomer	28906-13-0
Bis(methyl)tetrabromo-phthalate	55481-60-2	TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	71342-77-3
Brominated epoxy resin end-capped with tribromophenol	135229-48-0	TBBA carbonate oligomer, phenoxy end capped	94334-64-2

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Substance	CAS number	Substance	CAS number
Brominated epoxy resin end-capped with tribromophenol	139638-58-7	TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR (14) [Aliphatic/alicyclic brominated compounds]	N/A	TBBA, unspecified	30496-13-0
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR (15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	N/A	TBBA-bis-(allyl-ether)	25327-89-3
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR (16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	N/A	TBBA-bisphenol A-phosgene polymer	32844-27-2
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR (17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls) in combination with antimony compounds]	N/A	TBBA-dimethyl-ether	37853-61-5
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR (22) [Aliphatic/alicyclic chlorinated and brominated compounds]	N/A	TBBA-epichlorhydrin oligomer	40039-93-8
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR (42) [Brominated organic phosphorus compounds]	N/A	TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	N/A	TBBPA, 2,2-bis[4-(2,3-epoxypropyloxy) dibromo Phenyl]propane polymer	68928-70-1

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Substance	CAS number	Substance	CAS number
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	N/A	TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	N/A	TBPA Na salt	25357-79-3
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls) in combination with antimony compounds]	N/A	TBPA, glycol-and propylene-oxide esters	75790-69-1
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	N/A	Tetrabromo phthalic anhydride	632-79-1
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]	N/A	Tetrabromobisphenol A	79-94-7
Brominated trimethylphenyl-lindane	N/A	Tetrabromobisphenol A (also used as additive)	79-94-7
Bromo-/Chloro-alpha-olefin	82600-56-4	Tetrabromo-bisphenol S	39635-79-5
Bromo-/Chloro-paraffins	68955-41-9	Tetrabromocyclodecane	30178-92-8
Bromoethene (vinyl bromide)	593-60-2	Tetrabromo-cyclo-octane	31454-48-5
Decabromo-diphenyl-ethane	61262-53-1	Tetrabromoethene	79-28-7
Decabromo-diphenyl-ethane	84852-53-9	Tetrabromo-chyclo-octane	31454-48-5
Dibromo-1,5-pentenediol	36511-36-1	Tetrabromophthalic acid Na salt	25357-79-3
Dibromo-neopentyl-glycol	3296-90-0	Tetra-decabromo-diphenoxy-benzene	58965-66-5
Dibromo-propanol	96-13-9	Tribromo-bisphenyl-maleinimide	59789-51-4
Dibromo-styrene grafted PP	171091-06-8	Tribromomethane	75-25-2

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Substance	CAS number	Substance	CAS number
Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0	Tribromomethane (bromoform)	75-25-2
Formaldehyde, polymer with bromophenol and 2-(chloromethyl)oxirane	68541-56-0	Tribromo-neopentyl-alcohol	36483-57-5
Hexabromobenzene	87-82-1	Tribromophenol	25376-38-9
Hexabromocyclododecane	25637-99-4	Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
Hexabromo-cyclo-dodecane (HBCD), unspecified	25637-99-4	Tribromo-styrene	61368-34-1
Hexabromo-cyclo-dodecane (HBCD), unspecified	3194-55-6	Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9
Hexabromocyclohexane/1,2,3,4,5,6-hexabromocyclohexane	1837-91-8	Tris(2,4-Dibromo-phenyl) phosphate	49690-63-3
Hexabromocyclohexane/1,2,3,4,5,6-hexabromocyclohexane	30105-40-0	Tris(tribromo-neopentyl) phosphate	19186-97-1
Chlorinated and brominated phosphate ester	125997-20-8	Vinylbromide	593-60-2

Table 4.38 Chlorinated flame retardants

Material	CAS number	Material	CAS number
2,2-Bis(chloromethyl)trime thylene bis[bis (2-chloromethyl) phosphate]	38051-10-4	Tris (2-chloroethyl) phosphate (TECP)	115-96-8
Hexa chloro cyclopent a dienyl-dibromo cyclo ctane	51936-55-1	Tris(1-chloro-2-propyl)phosphate [C AS No. 13674-84-5]	13674-84-5
Chlorendic acid	115-28-6	Tris(2,3-dichloro-1-propyl)phosphate	66108-37-0
Tetrakis(2-chloroethyl)dichloroisopentyldiphosphate	38051-10-4	Tris(2-chloroethyl) phosphate	115-96-8
Tris (1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8		

Table 4.39 Chlorinated paraffins and waxes

Substance	CAS number	Substance	CAS number
Butyl bromoacetate (as total Br)	5292-43-3	Chlorinated paraffins (13%C)	8029-39-8
Carbon tetrachloride	56-23-5	Chlorinated paraffins (C<10)	97553-43-0
Chlorinated paraffin	61788-76-9	Chlorinated paraffins (C14-17)	85535-85-9
Chlorinated paraffin oils	85422-92-0	Chlorinated paraffins (C18-28)	85535-86-0

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Substance	CAS number	Substance	CAS number
Chlorinated paraffin waxes and hydrocarbon waxes	63449-39-8		

Table 4.40 Medium Chain Chlorinated Paraffins (MCCPs)

Substance	CAS number
Alkanes, C10-12, chloro	108171-26-2
Alkanes, chloro	61788-76-9
ALKANES,C12-13,CHLORO	71011-12-6
Ethene, homopolymer, chlorinated	64754-90-1
Chlorinated paraffins (C14-17)	85535-85-9
Chlorinated paraffins (C18-28)	85535-86-0
Chloroalkanes C10-13	85535-84-8

Table 4.41 Volatile Organic Compounds (VOCs)

Substance	CAS number	Substance	CAS number
Stoddard solvent	8052-41-3	Ethene	74-85-1
Benzene, ethylmethyl-	25550-14-5	Ethane	74-84-0
1-Propene, 1,3-dichloro-, mixt. with 1,2-dichloropropane	8003-19-8	Bromomethane (Methyl Bromide)	74-83-9
Ethanol, 1,2-dichloro-, acetate	10140-87-1	Methane	74-82-8
1-Propene, 1,3-dichloro-, (1E)-	10061-02-6	1,1,1, - Trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6
Silane, dichloro-	4109-96-0	1-Butanol	71-36-3
Propane, 2-methoxy-2-methyl-	1634-04-4	1-Propanol	71-23-8
Mercuric acetate	1600-27-7	2-Propenoic acid, 2-methyl-, methyl ester	80-62-6
2-Butanone, peroxide	1338-23-4	Propane, 2-nitro-	79-46-9
Benzene, dimethyl-	1330-20-7	Ethane, 1,1,2,2-tetrachloro-	79-34-5
Silane, triethoxy-	998-30-1	Ethane, nitro-	79-24-3
2-Propenoyl chloride	814-68-6	Acetic acid, methyl ester	79-20-9
2-Butene, 1,4-dichloro-	764-41-0	Propanoic acid	79-09-4
2-Propanone, 1,1,1,3,3,3-hexafluoro-	684-16-2	Trichloroethylene	79-01-6
Ethane, 1,1,1,2-tetrachloro-	630-20-6	Ethane, 1,1,2-trichloro-	79-00-5
Nitric acid, propyl ester	627-13-4	2-Propanone, 1-chloro-	78-95-5
Stannane, tetraethyl-	597-64-8	3-Buten-2-one	78-94-4
Dimethylmercury	593-74-8	2-Butanone	78-93-3
Vinylbromide	593-60-2	2-Butanol	78-92-2
2-Hexanone	591-78-6	1-Propene, 2,3-dichloro-	78-88-6
Carbonochloridic acid, 2-methylpropyl ester	543-27-1	Propane, 1,2-dichloro-	78-87-5
1-Propene, 1,3-dichloro-	542-75-6	Propanal, 2-methyl-	78-84-2
3-Heptanone, 5-methyl-	541-85-5	1-Propanol, 2-methyl-	78-83-1

Substance	CAS number	Substance	CAS number
Acetic acid, 1,1-dimethylethyl ester	540-88-5	1-Propanamine, 2-methyl-	78-81-9
1,3-Dioxan-4-ol, 2,6-dimethyl-, 4-acetate	828-00-2	1,3-Butadiene, 2-methyl-	78-79-5
2-Butanone, 3-methyl-	563-80-4	Tetraethyllead	78-00-2
1-Propene, 3-chloro-2-methyl-	563-47-3	Dichlorotetrafluoroethane (CFC 114)	76-14-2
Ethenone	463-51-4	1,1,2 Trichlorotrifluoroethane	76-13-1
Thiirane	420-12-2	Ethane, 1,1,1,2-tetrachloro-2,2-difluoro- ALIAS: 1,1,1,2-Tetrachloro-2,2-difluoroethane (CFC-112a)	76-11-9
Nickel(II) acetate	373-02-4	Acetyl chloride, 2,2,2-trichloro-	76-02-8
Ethanol, 2-fluoro-	371-62-0	Ethane, 1,1,1,2,2-pentachloro-	76-01-7
Acetyl bromide	506-96-7	2-chloro-1,1,1-trifluoroethane (HCFC-133a)	75-88-7
Acetic acid ethyl ester	141-78-6	Silane, trichloromethyl-	75-79-6
Ethanol, 2-amino-	141-43-5	Silane, dichlorodimethyl-	75-78-5
Methane, diazo-	334-88-3	Silane, chlorotrimethyl-	75-77-4
Lead di(acetate)	301-04-2	Tetramethyl lead	75-74-1
Ethene, 1,2-dichloro-, (1E)-	156-60-5	Dichlorodifluoromethane (CFC12)	75-71-8
Aziridine	151-56-4	Bromotrifluoromethane (Halon 1301)	75-63-8
Benzene, (dichloromethylsilyl)-	149-74-6	Dibromodifluoromethane (Halon-1202)	75-61-6
Butane, 1,1'-oxybis-	142-96-1	Methyloxirane (Propylene oxide)	75-56-9
Heptane	142-82-5	Silane, dichloromethyl-	75-54-7
Tetrachloroethene (perchloroethylene)	127-18-4	Methane, nitro-	75-52-5
Methane, dibromochloro-	124-48-1	Methane, triodo-	75-47-8
1-Butanol, 3-methyl-, 1-acetate	123-92-2	Dichlorofluoromethane (HCFC 21)	75-43-4
1,4-Dioxane	123-91-1	Ethene, 1,1-dichloro-	75-35-4
Acetic acid, butyl ester	123-86-4	Ethane, 1,1-dichloro-	75-34-3
1-Butanol, 3-methyl-	123-51-3	Methane, bromodichloro-	75-27-4
Octane	111-65-9	Methane, tribromo-	75-25-2
Phosphorous acid, trimethyl ester	121-45-9	Hydrazine, 1,1-dimethyl-	57-14-7
Ethanamine, N,N-diethyl-	121-44-8	Ethane, 1,1,1,2,2,2-hexachloro-	67-72-1
Silane, trichloroethyl-	115-21-9	Methane, trichloro-	67-66-3
1-Propene	115-07-1	2-Propanone	67-64-1
Nonane	111-84-2	2-Propanol	67-63-0
Ethanamine, N-ethyl-	109-89-7	Methanol	67-56-1
Pentane	109-66-0	Formic acid	64-18-6
Carbonochloridic acid, propyl ester	109-61-5	Ethanol	64-17-5
Acetic acid, propyl ester	109-60-4	Methanamine, N-methyl-N-nitroso-	62-75-9
Benzene, chloro-	108-90-7	Hydrazine, methyl-	60-34-4
Toluene	108-88-3	Ethane, 1,1'-oxybis-	60-29-7
Cyclohexane, methyl-	108-87-2	Hydrazine, phenyl-, hydrochloride (1:1)	59-88-1
2-Pentanol, 4-methyl-, 2-acetate	108-84-9	Formaldehyde	50-00-0
4-Heptanone, 2,6-dimethyl-	108-83-8	Methylmercury	22967-92-6

Substance	CAS number	Substance	CAS number
Benzene, 1,3,5-trimethyl-	108-67-8	Propane, nitro-	25322-01-4
Acetic acid, 1,1'-anhydride	108-24-7	Benzene, ethenylmethyl-	25013-15-4
Acetic acid, 1-methylethyl ester	108-21-4	Isooctanol	26952-21-6
Propane, 2,2'-oxybis-	108-20-3	Propane, dichloro-	26638-19-7
2-Propanamine, N-(1-methylethyl)-	108-18-9	Chromic acid (H ₂ CrO ₄), bis(1,1-dimethylethyl) ester	1189-85-1
2-Pentanone, 4-methyl-	108-10-1	Propane, 1-chloro-1-nitro-	600-25-9
Propane, 1-nitro-	108-03-2	Xylene, bromo-	28258-59-5
2-Pentanone	107-87-9	Cyclohexane, 1,1-dimethyl-	590-66-9
Formic acid, methyl ester	107-31-3	1-Propene, 1-chloro-2-methyl-	513-37-1
Methane, chloromethoxy-	107-30-2	Benzene, ethyldimethyl-	29224-55-3
2-Propyn-1-ol	107-19-7	Ethyne, dichloro-	7572-29-4
Acetonitrile, 2-hydroxy-	107-16-4	Ethane, 2-bromo-1-chloro-1,1-difluoro-	421-01-2
2-Propenenitrile	107-13-1	2-Propenoic acid, 2-chloro-, methyl ester	80-63-7
Propanenitrile	107-12-0	Benzene, (1-methylethenyl)-	98-83-9
Ethanol, 2-chloro-	107-07-3	Acetyl chloride, 2,2-dichloro-	79-36-7
1,2-dichloroethane	107-06-2	Ethane, 1,1,2,2-tetrabromo-	79-27-6
2-Propenal	107-02-8	Propanenitrile, 2-methyl-	78-82-0
1,3-Butadiene	106-99-0	Benzene, 1,2-dimethyl-	95-47-6
Oxirane, 2-ethyl-	106-88-7	Oxiranecarboxaldehyde	765-34-4
Benzene, 1,4-dimethyl-	106-42-3	Tetrachlorodifluoroethane (CFC 112)	76-12-0
3-Heptanone	106-35-4	Acetic acid, 2,2,2-trichloro-	76-03-9
Acetic acid, 1-methylpropyl ester	105-46-4	Trichlorofluoromethane (CFC 11)	75-69-4
Ethene, (2-chloroethoxy)-	110-75-8	2-Propanol, 2-methyl-	75-65-0
n-Hexane	110-54-3	Aziridine, 2-methyl-	75-55-8
Acetic acid, 2-methylpropyl ester	110-19-0	Methanamine, N,N-dimethyl-	75-50-3
2-Hexanone, 5-methyl-	110-12-3	2-Propanamine	75-31-0
Benzene, 1,2-dichloro-	95-50-1	Pentane, 2,2,4-trimethyl-	540-84-1
Benzene, 1-chloro-2-methyl-	95-49-8	Ethane, 1,1-dichloro-1-nitro-	594-72-9
Ethanol, 2,2',2''-nitrilotris-	102-71-6	Acetic acid	64-19-7
Benzene, 1,1'-oxybis-	101-84-8	Benzene, 1-propenyl-	637-50-3
Hydrazine, phenyl-	100-63-0	Benzene, 1,3-dichloro-	541-73-1
Benzene, ethenyl-	100-42-5	Carbonochloridic acid, ethyl ester	541-41-3
Benzene, (1-methylethyl)-	98-82-8	Ethane, trichloro-	25323-89-1
2-Propenoic acid, methyl ester	96-33-3	Paraformaldehyde	30525-89-4
3-Pentanone	96-22-0	2-Pentanone, 4-hydroxy-4-methyl-	123-42-2
1,2,3-Trichloropropane	96-18-4	Propanal	123-38-6
Oxirane	75-21-8	4-Heptanone	123-19-3
Formamide	75-12-7	Carbamic acid, (3-chlorophenyl)-, 1-methylethyl ester	101-21-3
Dichloromethane (methylene chloride)	75-09-2	Benzene, ethyl-	100-41-4
Acetaldehyde	75-07-0	Morpholine	110-91-8

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Substance	CAS number	Substance	CAS number
Acetonitrile	75-05-8	2-Butene, 1,4-dichloro-, (2E)-	110-57-6
Ethanamine	75-04-7	2-Heptanone	110-43-0
Vinyl chloride	75-01-4	Ethane, isocyanato-	109-90-0
Ethane, chloro-	75-00-3	Benzene, 1,3-dimethyl-	108-38-3
1-Propyne	74-99-7	Carbonochloridic acid, 1-methylethyl ester	108-23-6
Propane	74-98-6	Acetic acid ethenyl ester	108-05-4
Bromoethane (ethyl bromide)	74-96-4	Phosphoric acid, dibutyl ester	107-66-4
Methane, dibromo-	74-95-3	1,2-Ethanediamine	107-15-3
Methanamine	74-89-5	1-Propyne, 3-bromo-	106-96-7
Methane, iodo-	74-88-4	Silane, chloromethyl-	993-00-0
Methane, chloro-	74-87-3	2-Propenoic acid, ethyl ester	140-88-5
Ethyne	74-86-2		

Table 4.42 Hexachlorocyclohexanes, including lindane

Substance	CAS number
(1 α ,2 α ,3 β ,4 α ,5 β ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane	319-84-6
γ -HCH or γ -BHC	58-89-9
BHC or HCH	608-73-1

Table 4.43 Polychlorinated Terphenyls (all isomers and congeners)

Substance	CAS number
Chlorodiphenyl (Aroclor 1260)	11096-82-5
Aroclor 1254	11097-69-1
Terphenyl, chlorinated	61788-33-8

Table 4.44 Tetrabromodiphenyl ether

Substance	CAS number
Diphenyl ether, tetrabromo derivative	40088-47-9
2,4,4',6-Tetrabromodiphenyl ether	189084-63-7
1,3-dibromo-2-(3,4-dibromophenoxy)benzene	189084-62-6
Benzene, 1,1'-oxybis[3,4-dibromo-	93703-48-1
2,3',4,4'-Tetrabromodiphenyl ether	189084-61-5

7 Key Performance Indicators

N/A