

ES0101 TEAC Green Procurement Guideline Specified Chemical Substances List (5.1 edition)

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Table-1 List of Environment-related substance groups (Substances to be prohibited)

Rank	No	Substance (Group) name
Substances to be prohibited	1	Cadmium /Cadmium compounds
	2	Hexavalent Chromium Compounds
	3	Lead /Lead compounds
	4	Mercury /Mercury compounds
	5	Polybrominated diphenylethers (PBBs)
	6	Polybrominated Diphenylethers (PBDEs)
	7	Phthalates (DEHP,BBP,DBP,DIBP)
	8	Certain Azocolourants and Azodyes
	9	Short Chain Chlorinated Paraffins
	10	Form aldehyde
	11	Pentachlorophenol (PCP) and its salts and esters
	12	Monomethyl-dibromo-diphenyl methane (DBBT)
	13	Monomethyltetrachlorodiphenylmethane (Trade Name:Ugilec 141)
	14	Monomethyldichlorodiphenylmethane (Trade Name:Ugilec 121, Ugilec 21)
	15	Perfluorooctane sulfonate and its salts (PFOS), Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances
	16	Cobalt chlorides
	17	Dimethyl fumarate (DMF)
	18	Arsenic /Arsenic compounds
	19	Nickel and Nickel compounds
	20	Chlorinated hydrocarbons
	21	Polycyclic aromatic hydrocarbons (PAHs)
	22	Perchlorates
	23	Fluorinated greenhouse gases (PFC, SF6, HFC)
	24	Dibutyltin compounds (DBT)
	25	Diocyltin compounds (DOT)
	26	Asbestos
	27	Specified organic tin compounds,Tributyl Tin Oxide (TBTO)
	28	Tri-substituted organostannic compounds, Tributyl Tin (TBT) and Triphenyl Tin (TPT)
	29	Polychlorinated Biphenyls (PCBs) and Polychlorinated Terphenyl (PCTs)
	30	Polychlorinated Naphthalenes (more than 1 chlorine atoms)
	31	Specific amine
	32	Aromatic amines excluding the above specific amine
	33	Chlordanes
	34	Hexa chloro benzene and benzene
	35	DDT (Chloro phenothane)
	36	Organic chlorine chemicals (Aldrin,Dieldrin,Endrin)
	37	Dioxins
	38	Ozone Depleting Substances
	39	N-p-phenylenediamine
	40	Do deca chloro octa hydro-1,3,4-metheno -2H-cyclo buta pentalene (Brand name:MIREX)
	41	Toxaphene
	42	Bis (chloro methyl) ether
	43	2,4,6- tri -t- butyl phenol
	44	Yellow phosphorus
	45	2,2,2-Trichloro-1,1-Bis (4-Chlorophenyl) Ethanol (Kelthane, Dicofol)
	46	Hexachlorobutadiene (HCBd)
	47	Specified benzotriazole 2-(2H-1,2,3-benzotriazole-2-il)-4,6-di-tert-butylphenol
	48	Beryllium oxide
	49	Radioactive Substances
	50	Hexabromocyclododecane (HBCDD)
	51	Polyvinyl chloride (PVC)
	52	Tetrabromobisphenol A (TBBP-A)
	53	Chlorine
	54	Bromine

Note: • Major example substances other than those in the "List of chemSHERPA Declarable Substances" are shown in Table-3 List of example substances.

Substances that are not in this list but that are subject to treaties, laws, ordinances or industry guidelines must be reported.

- For detailed information on substances that fall under the List of Exempted Items applies, see the Document-1.
- For detailed information on parts and materials to be reported and their threshold limit for standards for chemical content, see the Document-2.

Table-2 List of Environment-related substance groups (Substances to be controlled)

Rank	No	Substance (Group) name
Substances to be reduced	55	Antimony /Antimony compounds
	56	Bismuth /Bismuth compounds
	57	Metallic chromium /Chromium(III) compounds
	58	Copper /Copper compounds
	59	Indium /Indium compounds
	60	Manganese /Manganese compounds
	61	Molybdenum /Molybdenum compounds
	62	Silver /Silver compounds
	63	Tellurium /Tellurium compounds
	64	Thallium /Thallium compounds
	65	Vanadium /Vanadium compounds
	66	Zinc /Zinc compounds
	67	Metallic carbonyls
	68	Magnesium
	69	Palladium /Palladium compounds
	70	Gold /Gold compounds
	71	Azo compounds (except Certain Azocolourants and Azodyes (No.8))
	72	Chlorinated paraffine (except short chain chlorinated paraffins (No.9))
	73	Cyanogen /Cyanogen compounds
	74	Brominated Flame Retardants (except for PBBs, PBDEs and HBCDD, TBBP-A)
	75	Halogenated fire retardants/halogenated resin additives
	76	Barium /Barium compounds
	77	Boron /Boron compounds
	78	Inorganic phosphorus compounds
	79	Organic phosphorus compounds
	80	Xylenes
	81	Aromatic hydrocarbons
	82	Organic esters
	83	Chloro phenols
	84	N - nitrosamines
	85	All flame retardants exclude halogenated substances
	86	Red Phosphorus
	87	Surfactants
	88	Triclosan
	89	Toluene
	90	Auramine
	91	Sulfur compounds
	92	Aromatic nitro compounds
	93	Hydrocarbons
	94	Indium phosphide
	95	4-Vinyl-1-cyclohexene diepoxide
	96	Isocyanate
	97	1,2-Epoxybutane
	98	Organic acids
	99	Pyridines
	100	Trisiloxane, octamethyl-; MDM
	101	Phenol, isooctyl
	102	6,6'Di-tert-butyl-2,2'-methylenedi-p-cresol
	103	N-[4-(acetylamino)phenyl]-4-[[5-(aminocarbonyl)-2-chlorophenyl]azo]-3-hydroxynaphthalene-2-carboxamide
	104	o-Anisidine hydrochloride
	105	Dodecachlorodimethano-dibenzocyclooctane

Rank	No	Substance (Group) name
Substances to be reduced	106	Phenazopyridine hydrochloride
	107	Phthalates (except for No.7)
	108	Indium phosphide
	109	Sodium Alkylbenzene Sulfonate (Sodium dodecylbenzenesulfonate)
	110	Tetrasodium [μ -[[3,3'-[(3,3'-dihydroxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonato]](8-)]dicuprate(4-)
	111	1,1,5,5,5-hexamethyl-3,3-bis[(trimethylsilyl)oxy]trisiloxane
	112	Disodium 1-(2,4-dimethylphenylazo)-2-hydroxynaphthalene-3,6-disulphonate
	113	Calcium bis[4-[[3-[[2-hydroxy-3-[[4-methoxyphenyl]amino]carbonyl]-1-naphthyl]azo]-4-methylbenzoyl]amino]benzenesulphonate]
	114	3',6'-Bis(N,N-Diethylamino)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one
	115	Lithium carbonate
	116	Disodium 8-((3,3'-dimethyl-4'-(4-(4-methylphenylsulphonyloxy)phenylazo)(1,1'-biphenyl)-4-yl)azo)-7-hydroxynaphthalene-1,3-disulphonate
	117	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole
	118	Hexane, 2,5-dimethyl-2,5-bis(t-butylperoxy)
	119	(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride
	120	1-Amino-2-methylantraquinone
	121	2-Amino-4-nitro anisidine
	122	alkylphenols
	123	Zinc chromate
	124	Perfluorinated Carboxylic Acids (PFCAs)
	125	Silica, crystalline

Note: Major example substances other than those in the "List of chemSHERPA Declarable Substances" are shown in Table-3 List of example substances.

Substances that are not in this list but that are subject to treaties, laws, ordinances or industry guidelines must be reported.

Table-3 List of example substances

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
1	Cadmium /Cadmium compounds	Cadmium alloys	Unspecified
2	Hexavalent Chromium Compounds	Zinc chromate	12018-19-8
		Copper chromite	12053-18-8
		Strontium chromate	7789-06-02
		Ammonium dichromate	7789-09-05
		Potassium dichromate	7788-50-9
3	Lead /Lead compounds	Lead (II) phosphate	7446-27-2
		Lead alkyls	Unspecified
		Lead/Tin alloy	Unspecified
		Dilead trioxide	Unspecified
4	Mercury /Mercury compounds	Dialkylmercury	Unspecified
		Ethylmercury salts	Unspecified
		Phenylmercury salts	Unspecified
		Propylmercury salts	Unspecified
		Methylmercury salts	Unspecified
		Methoxyethyl-mercury salts	Unspecified
		Mercury alloys;amalgam	Unspecified
5	Polybrominated diphenylethers (PBBs)	Other polybrominated biphenyl	Unspecified
6	Polybrominated Diphenylethers (PBDEs)	Other Polybrominated Biphenyl/Polybrominated Diphenylethers (PBDEs)	Unspecified
7	Phthalates	Dimethyl phthalate (DMP)	131-11-3
		Diethyl phthalate (DEP)	84-66-2
		Other phthalate and its compound	Unspecified
9	Short Chain Chlorinated Paraffins	Chlorinated Paraffines(C23,60%chlorine)	108171-27-3
		Chlorinated Paraffines	8029-39-8
		Other Short Chain Chlorinated Paraffin	Unspecified
10	Form aldehyde	Formaldehyde, polymer with bromophenol and (chloromethyl)oxirane	68541-56-0
		Formaldehyde, reaction products with butylphenol with butylphenol	91673-30-2
		Other formaldehydes and its compounds	Unspecified
11	Pentachlorophenol (PCP) and its salts and esters	Other chloro phenols	Unspecified
15	Perfluorooctane sulfonate and its salts (PFOS), Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances	Other Perfluorooctane sulfonate and its salts (PFOS) Other Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances	Unspecified
18	Arsenic /Arsenic compounds	Other Arsenic acid and its salts Arsenic (inorganic arsenic compounds)	Unspecified Unspecified
20	Chlorinated hydrocarbons	Polychlorinated Phenols and their salts	Unspecified
21	Polycyclic aromatic hydrocarbons (PAHs)	Polycyclic aromatic hyd hydrocarbons (PAH)	130498-29-2
		Pentacene	135-48-8
		Ovalene	190-26-1
		Coronene	191-07-1
		Indeno[c,d]pyrene	193-39-5
		Acenaphthylene	208-96-8
		Triphenylene	217-59-4
		Corannulene	5821-51-2
		Acenaphthene	83-32-9
		Fluorene	86-73-7
		Naphthacene	92-24-0
23	Fluorinated greenhouse gases (PFC, SF6, HFC)	PFC-61-16 Hexa deca fluoro heptane	335-57-9
		PFC-71-18 Octa deca fluoro octane	307-34-6
		Tetra fluoro ethylene	116-14-3
		Per fluoro iso butylene	382-21-8
		Other PFCs	Unspecified

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
23	Fluorinated greenhouse gases (PFC, SF6, HFC)	HFC-356 1,1,1,4,4,4-Hexa fluoro propane	407-59-0
		Other HFCs	Unspecified
		HFC-125/143a/134a=44/52/4	Unspecified
		HFC-32/125/134a=20/40/40	Unspecified
		HFC-32/125/134a=23/25/52	Unspecified
		HFC-32/125=50/50	Unspecified
		HFC-32/125=45/55	Unspecified
		HFC-32/143a=50/50	Unspecified
		HFC-23/FC-116=39/61	Unspecified
		HFC-23/FC-116=46/54	Unspecified
		Other Greenhouse Gases	Unspecified
26	Asbestos	Other asbestos and its compounds	Unspecified
28	Tri-substituted organostannic compounds, Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Methyl Methacrylate and tributyl tin methacrylate	Unspecified
		Other Tributyl Tin&Triphenyl Tin	Unspecified
		Other Tributyl Tin(TBT) and Triphenyl Tin(TPT)	Unspecified
		Mixture of tributyltin-1,2,3,4,4,a,5,6,10,10a-decahydro-7-isopro isopropyl-1,4a-dimethyl-1-phenanthren carboxylate and its analogs	Unspecified
		Mixture of tributyltin cyclopentane carboxylate and its analogs	Unspecified
29	Polychlorinated Biphenyls (PCBs) and Polychlorinated Terphenyl (PCTs)	Terphenyls	26140-60-3
		Other Polychlorinated biphenyls (PCBs), Polychlorinated Terphenyls (PCTs) and its compounds	Unspecified
30	Polychlorinated Naphthalenes (more than 1 chlorine atoms)	Polychlorinated Naphthalenes (more than 1 chlorine atoms)	Unspecified
33	Chlordanes	Trans-nonachlor C10H5Cl9	39765-80-5
		Cis-nonachlor C10H5Cl9	5103-73-1
		Other Chlordane	Unspecified
36	Organic chlorine chemicals (Dieldrin, Endrin)	Simazine	122-34-9
		Benthiocarb	28249-77-6
		Bis(2 - chloro ethyl) sulfide	505-60-2
		o,p' - DDT	789-02-6
37	Dioxins	Polychlorinated dibenzo paradioxins	Unspecified
		Coplanar polychlorinated biphenyls	Unspecified
38	Ozone Depleting	CFCs(Annex A Group I substances in the Montreal Protocol)	Unspecified
		CFCs(Annex B Group I substances in the Montreal Protocol)	Unspecified
		Halons(Annex A Group II substances in the Montreal	Unspecified
		Bromochlorodifluoromethane (Halon-1211) and its isomers	11104-73-7
		Bromotrifluoromethane (Halon-1301) and its isomers	62395-25-9
		Dibromotetrafluoroethane (Halon-2402) and its isomers	76199-55-8
		HBFCs(Annex C Group II substances in the Montreal	Unspecified
		HCFCs(Annex C Group I substances in the Montreal	Unspecified
		Bromochloromethane(Annex C Group III substance in the Montreal Protocol)	Unspecified
		Chlorotrifluoromethane (CFC-13) and its isomers	185009-43-2
		Trichlorotrifluoroethane (CFC-113) and its isomers	39349-94-5
		Trichlorotrifluoroethane (CFC-113) and its isomers	56996-61-3
		Trichlorotrifluoroethane (CFC-113) and its isomers	57762-34-2
		C2HF3Br2	66542-88-9
		CFC-112	28605-74-5
		Monochloroheptafluoropropane (CFC 217) and its isomers	76-18-6
		1,1-dichloro-2,2,3,3-tetrafluoropropane	4071-01-6
		2,2-dichloro-1,1,1-trifluoropropane	7126-01-4
		1,1,2-trichloro-1,2-difluoropropane	7126-04-7
		1,2,2-trichloro-1,1-difluoropropane	7126-05-8
		1,1,2,2-tetrachloro-1-fluoropropane	7126-06-9
		1,1-dichloro-2,2-difluoropropane	1112-01-2

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
38	Ozone Depleting	1,1,1-trichloro-2,2-difluoropropane	1112-05-6
		1,2,3-trichloro-1,2-difluoropropane	1112-13-6
		1,2,3,3-tetrachloro-1,1-difluoropropane	1112-14-7
		1,3-dichloro-2,2-difluoropropane	1112-36-3
		1,3-dichloro-1,2-difluoropropane	111483-26-2
		(R,R)2,3-dichloro-1,1,1,2,3-pentafluoropropane	111512-51-7
		(R,S)2,3-dichloro-1,1,1,2,3-pentafluoropropane	111512-55-1
		2-chloro-1,1,1,3-tetrafluoropropane (HCFC-244db)	117970-90-8
		1,1-dichloro-1,3-difluoropropane	121612-64-4
		3-chloro-1,1,2-trifluoropropane	121612-65-5
		1,1,2-trichloro-2,3,3-trifluoropropane	13058-99-6
		1,1,1-trichloro-2,2,3-trifluoropropane	131211-71-7
		1,1,3-trichloro-2,2,3-trifluoropropane	131221-36-8
		1,1-dichloro-3,3-difluoropropane	131404-17-6
		1,2,2-trichloro-1,1-difluoroethane	134237-33-5
		1-chloro-1,1,2-trifluoropropane	134251-05-1
		2-chloro-1,1,1,3,3-pentafluoropropane (HCFC-235da)	134251-06-2
		2,2-dichloro-1,1,3,3-tetrafluoropropane	17705-30-5
		2-chloro-1,1,3,3-tetrafluoropropane (HCFC-244da)	19041-02-2
		2-chloro-1-fluoropropane	20372-78-5
		1,1,2,3-tetrachloro-3-fluoropropane	21981-25-9
		1,1,1,3-tetrachloro-3-fluoropropane	23153-22-2
		1-chloro-1,1,3,3-tetrafluoropropane (HCFC-244fb)	2730-64-5
		1-chloro-1,2,2,3,3-pentafluoropropane (HCFC-235ca)	28103-66-4
		1,1-dichlorodifluoroethane	31153-51-2
		1,1,2-trichloro-2-fluoropropane	3175-24-4
		1,1,1,2-tetrachloro-2-fluoropropane	3175-25-5
		1,1,2,3-tetrachloro-2-fluoropropane	3175-26-6
		1,1,3-trichloro-1,3,3-trifluoropropane	333-26-6
		(R,R) (+,-) 1,2-dichloro-1,2-difluoroethane	33489-30-4
		(meso) 1,2-dichloro-1,2-difluoroethane	33579-37-2
		1-chloro-1,1,2,3,3,3-hexafluoropropane (HCFC-226ea)	359-58-0
		1-chloro-2,3-difluoropropane	37161-81-2
		2-chloro-1,1,1-trifluoropropane	421-47-6
		2-chloro-1,1,1,2-tetrafluoropropane (HCFC-244ba)	421-73-8
		1,1,2,3,3-pentachloro-1,3-difluoropropane	421-82-3
		1,2,3-trichloro-1,1,2-trifluoropropane	421-95-4
		1,1,3-trichloro-1,2,2-trifluoropropane	421-99-8
		1,3-dichloro-1,1,2,2-tetrafluoropropane (HCFC-234cc)	422-00-5
		2-chloro-1,1,1,2,3-pentafluoropropane	422-02-6
		1,1,1,2,2-pentachloro-3,3-difluoropropane	422-27-5
		1,1,2,2,3,3-hexachloro-1-fluoropropane	422-28-6
		1,1,2,2-tetrachloro-1,3,3-trifluoropropane	422-29-7
		1,2,2-trichloro-1,1,3,3-tetrafluoropropane	422-32-2
		2,2,3,3-tetrachloro-1,1,1-trifluoropropane	422-35-5
		1,1,1,2,3,3-hexachloro-2-fluoropropane	422-40-2
		1,2,3,3-tetrachloro-1,1,2-trifluoropropane	422-41-3
		1,2,3-trichloro-1,1,2,3-tetrafluoropropane	422-42-4
		2,3,3-trichloro-1,1,1,2-tetrafluoropropane	422-47-9
		1-chloro-1,1,2,2,3,3-hexafluoropropane	422-55-9
		3-chloro-1,1,1,2,2,3-hexafluoropropane	422-57-1
		1-chloro-2-fluoropropane	430-46-6
		2-chloro-1,1-difluoropropane	430-93-3
		1-chloro-1,2-difluoropropane	430-96-6
		1,2,3-trichloro-1,1-difluoropropane	431-24-3
		2,3,3-trichloro-1,1,1-trifluoropropane	431-51-6
		1,1,1,2,3,3-hexachloro-3-fluoropropane	431-79-8
		1,1,1,2,3-pentachloro-3,3-difluoropropane	431-80-1
		1,1,1,2-tetrachloro-3,3,3-trifluoropropane	431-81-2

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
38	Ozone Depleting	1,1,2,3-tetrachloro-1,3,3-trifluoropropane	431-83-4
		1,1,2-trichloro-1,3,3,3-tetrafluoropropane	431-84-5
		1,2-dichloro-2-fluoropropane	453-01-0
		1-chloro-3-fluoropropane	462-38-4
		1,1,1-trichloro-2,3,3,3-tetrafluoropropane	53063-52-8
		1,1,3-trichloro-1,2,3,3-tetrafluoropropane	53063-53-9
		3,3-dichloro-1,1,1,2-tetrafluoropropane	53063-54-0
		1,1-dichloro-3-fluoropropane	53074-30-9
		1,1-dichloro-2-fluoropropane	53074-31-0
		(R,R) 1,3-dichloro-1,1,2,3-tetrafluoropropane	53149-65-8
		2-chloro-1,1,1,2,3,3-hexafluoropropane (HCFC-226ba)	51346-64-6
		1,1,1,3-tetrachloro-2,3,3-trifluoropropane	54002-59-4
		1,1,1-trichloro-2,3,3-trifluoropropane	54306-56-8
		1,1,3-trichloro-1,2,3-trifluoropropane	54377-32-1
		Dichloro-1,1-difluoroethane	55494-45-6
		Trichloro-1,1-difluoroethane	55949-46-7
		1-chloro-2,2,3-trifluoropropane	56758-54-4
		1,2,2-trichloro-1,1-difluoroethane	62549-18-2
		1,1-dichloro-1,3,3,3-tetrafluoropropane	64712-27-2
		1-chloro-1,2,2,3-tetrafluoropropane	67406-66-0
		1,3-dichloro-1,2,2-trifluoropropane	67406-68-2
		1,1,3,3-tetrachloro-2,2-difluoropropane	677-54-3
		1-chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	677-55-4
		(R,R)1,2,3-trichloro-1-fluoropropane	67832-44-4
		(R,S) 1,2,3-trichloro-1-fluoropropane	67832-50-2
		1,2,3,3,-tetrachloro-1,1-difluoropropane	67879-59-8
		1-chloro-1,1,2,2,3-pentafluoropropane (HCFC-235cc)	679-99-2
		2-chloro-1,1,2-trifluoropropane	69202-10-4
		1,1-dichloro-1,2,2,3-tetrafluoropropane	70192-63-1
		1,1-dichloro-2,2,3-trifluoropropane	70192-70-0
		1,2-dichloro-2,3-difluoropropane	70192-74-4
		1-chloro-1,2,2-trifluoropropane	70192-76-6
		1,2,2-trichloro-3-fluoropropane	70192-89-1
		1,3-dichloro-1,2,2,3-tetrafluoropropane	70341-81-0
		1,1,1-trichloro-3,3,3-trifluoropropane	7125-84-0
		1,2-dichloro-1,1,2-trifluoropropane	7126-00-3
		1,2-dichloro-1,1-difluoropropane	7126-15-0
		1,2,3-trichloro-2-fluoropropane	7126-16-1
		1,2,3-trichloro-1,2-difluoropropane	7164-14-9
		1,3-dichloro-1,1,3,3-tetrafluoropropane (HCFC-234fa)	76140-39-1
		1,1,3-trichloro-2-fluoropropane	76937-36-5
		[R(R,R)] 1,2,3-trichloro-1-fluoropropane	76985-33-6
		[R(R,S)] 1,2,3-trichloro-1-fluoropropane	76985-34-7
		1,2-dichloro-1-fluoropropane	7799-55-5
		1,3-dichloro-2-fluoropropane	816-38-6
		2,3-dichloro-1,1-difluoropropane	82578-00-5
		1-chloro-1,1,3-trifluoropropane	83124-56-5
		3-chloro-1,1-difluoropropane	83124-57-6
		1,3-dichloro-1-fluoropropane	83124-60-1
		1,1,1,2-tetrachloro-3-fluoropropane	84816-05-7
		(R,R) (+,-) 1,2,3-trichloro-1-fluoropropane	84847-79-0
		(R,S) (+,-) 1,2,3-trichloro-1-fluoropropane	84847-80-3
		1,1,2-trichloro - 1 (or 2)-fluoroethane	90134-98-8
		Tribromodifluoroethane	Unspecified
		Tribromofluoroethane	Unspecified
		Dibromodifluoroethane	75-62-1
		Hexabromofluoropropane	Unspecified
		Pentabromodifluoropropane	Unspecified
		Tetrabromotrifluoropropane	Unspecified

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
38	Ozone Depleting	Tribromotetrafluoropropane	Unspecified
		Bromohexafluoropropane	2252-79-1
		Pentabromofluoropropane	Unspecified
		Tetrabromodifluoropropane	Unspecified
		Tribromotrifluoropropane	Unspecified
		Dibromotetrafluoropropane	Unspecified
		Bromopentafluoropropane	480-88-8
		Tetrabromofluoropropane	Unspecified
		Dibromotrifluoropropane	70192-83-5
		Bromodifluoropropane	Unspecified
		C3HF6Br	Unspecified
		Chlorofluorocarbons (CFCs)	Unspecified
		Hydrochlorofluorocarbons (HCFC)	Unspecified
		Dibromotetrafluoropropane C3H2F4Br2	Unspecified
		Tetrabromodifluoropropane C3H2F2Br4	Unspecified
		Tetrabromotrifluoropropane C3HF3Br4	Unspecified
		Tetrabromofluoropropane C3H3FBr4	Unspecified
		Tribromodifluoroethane C2HF2Br3	Unspecified
		Tribromotetrafluoropropane C3HF4Br3	Unspecified
		Tribromotrifluoropropane C3H2F3Br3	Unspecified
		Tribromofluoroethane C2H2FBr3	Unspecified
		Halon	Unspecified
		Bromodifluoropropane C3H5F2Br	Unspecified
		Hexabromofluoropropane C3HFBr6	Unspecified
		Pentabromodifluoropropane C3HF2Br5	Unspecified
		Pentabromofluoropropane C3H2FBr5	Unspecified
		Dibromodifluoroethane	Unspecified
		Dibromodifluoropropane	Unspecified
		Dibromotrifluoroethane	Unspecified
		Dibromotrifluoropropane	Unspecified
		Dibromofluoroethane	Unspecified
		Dibromofluoropropane	Unspecified
		Dibromofluoromethane	Unspecified
		Dibromopentafluoropropane	Unspecified
		Tetrabromofluoroethane	Unspecified
		Tribromodifluoropropane	Unspecified
		Tribromofluoropropane	Unspecified
		Bromodifluoroethane	Unspecified
		Bromodifluoromethane	Unspecified
		Bromotetrafluoroethane	Unspecified
		Bromotetrafluoropropane	Unspecified
		Bromotrifluoroethane	Unspecified
		Bromotrifluoropropane	Unspecified
		Bromofluoroethane	Unspecified
		Bromofluoropropane	Unspecified
		Bromofluoromethane	Unspecified
		Bromohexafluoropropane	Unspecified
		Bromopentafluoropropane	Unspecified
		2,2-dichloro-1,1,2-trifluoroethane (HCFC-123b)	Unspecified
		1,1,1,3,3,3-hexachloro-2-fluoropropane	Unspecified
		1,1,1,3,3,3-pentachloro-2,3-difluoropropane	Unspecified
		(1,1,3,3,3-pentachloro-1,2-difluoropropane)	Unspecified
		1,1,2,2,3-pentachloro-1,3-difluoropropane	Unspecified
		1,1,2,3,3-pentachloro-1,2-difluoropropane	Unspecified
		1,1,1,2-tetrachloro-2,3,3-trifluoropropane	Unspecified
		1,1,3,3-tetrachloro-1,2,3-trifluoropropane	Unspecified
		1,2,2,3-tetrachloro-1,1,3-trifluoropropane	Unspecified
		1,1,2,3-tetrachloro-1,2,3-trifluoropropane	Unspecified
		1,1,2-trichloro-1,2,3,3-tetrafluoropropane	Unspecified

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
38	Ozone Depleting	1,1,2,3,3-pentachloro-2-fluoropropane	Unspecified
		1,1,1,3,3-pentachloro-3-fluoropropane	Unspecified
		1,1,2,2,3-pentachloro-1-fluoropropane	Unspecified
		1,1,1,2,2-pentachloro-3-fluoropropane	Unspecified
		1,1,1,2,3-pentachloro-3-fluoropropane	Unspecified
		1,1,1,3,3-pentachloro-2-fluoropropane	Unspecified
		1,1,2,2,3-pentachloro-3-fluoropropane	Unspecified
		1,1,2,3,3-pentachloro-1-fluoropropane	Unspecified
		1,1,1,3-tetrachloro-2,3-difluoropropane	Unspecified
		1,1,1,2-tetrachloro-2,3-difluoropropane	Unspecified
		1,1,1,2-tetrachloro-3,3-difluoropropane	Unspecified
		1,1,2,3-tetrachloro-1,2-difluoropropane	Unspecified
		1,1,2,3-tetrachloro-1,3-difluoropropane	Unspecified
		1,2,3,3-tetrachloro-1,2-difluoropropane	Unspecified
		1,2,2,3-tetrachloro-1,1-difluoropropane	Unspecified
		1,2,2,3-tetrachloro-1,3-difluoropropane	Unspecified
		1,1,3,3-tetrachloro-1,3-difluoropropane	Unspecified
		1,1,2,2-tetrachloro-3,3-difluoropropane	Unspecified
		1,1,2,2-tetrachloro-1,3-difluoropropane	Unspecified
		1,1,2-trichloro-1,2,3-trifluoropropane	Unspecified
		1,2,3-trichloro-1,2,3-trifluoropropane	Unspecified
		1,1,2-trichloro-1,3,3-trifluoropropane	Unspecified
		1,3,3-trichloro-1,1,2-trifluoropropane	Unspecified
		2,2,3-trichloro-1,1,3-trifluoropropane	Unspecified
		1,2,3-trichloro-1,1,3-trifluoropropane	Unspecified
		1,2,2-trichloro-1,1,3-trifluoropropane	Unspecified
		1,1-dichloro-1,2,3,3-tetrafluoropropane	Unspecified
		1,2-dichloro-1,1,3,3-tetrafluoropropane	Unspecified
		2,3-dichloro-1,1,1,2-tetrafluoropropane	Unspecified
		2,2-dichloro-1,1,1,3-tetrafluoropropane	Unspecified
		1,2-dichloro-1,1,2,3-tetrafluoropropane	Unspecified
		1-chloro-1,1,2,3,3-pentafluoropropane	Unspecified
		2-chloro-1,1,2,3,3-pentafluoropropane	Unspecified
		1,1,1,3-tetrachloro-2-fluoropropane	Unspecified
		1,1,2,2-tetrachloro-3-fluoropropane	Unspecified
		1,2,2,3-tetrachloro-1-fluoropropane	Unspecified
		1,1,3,3-tetrachloro-1-fluoropropane	Unspecified
		1,1,3,3-tetrachloro-2-fluoropropane	Unspecified
		1,1,2-trichloro-1,2-difluoropropane	Unspecified
		1,1,1-trichloro-2,3-difluoropropane	Unspecified
		1,1,2-trichloro-1,3-difluoropropane	Unspecified
		1,1,3-trichloro-1,2-difluoropropane	Unspecified
		1,1,2-trichloro-2,3-difluoropropane	Unspecified
		1,2,2-trichloro-1,3-difluoropropane	Unspecified
		2,2,3-trichloro-1,1-difluoropropane	Unspecified
		1,1,1-trichloro-3,3-difluoropropane	Unspecified
		1,1,3-trichloro-1,3-difluoropropane	Unspecified
		1,1,2-trichloro-3,3-difluoropropane	Unspecified
		1,1,3-trichloro-2,3-difluoropropane	Unspecified
		1,2,3-trichloro-1,3-difluoropropane	Unspecified
		1,3-dichloro-1,1,2-trifluoropropane	Unspecified
		1,2-dichloro-1,1,3-trifluoropropane	Unspecified
		1,1-dichloro-1,2,3-trifluoropropane	Unspecified
		2,3-dichloro-1,1,2-trifluoropropane	Unspecified
		2,2-dichloro-1,1,3-trifluoropropane	Unspecified
		1,2-dichloro-1,2,3-trifluoropropane	Unspecified
		1,3-dichloro-1,1,3-trifluoropropane	Unspecified
		1,1-dichloro-1,3,3-trifluoropropane	Unspecified
		3,3-dichloro-1,1,2-trifluoropropane	Unspecified

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
38	Ozone Depleting	2,3-dichloro-1,1,3-trifluoropropane	Unspecified
		1,3-dichloro-1,2,3-trifluoropropane	Unspecified
		1-chloro-1,1,2,3-tetrafluoropropane	Unspecified
		3-chloro-1,1,1,2-tetrafluoropropane	Unspecified
		2-chloro-1,1,2,3-tetrafluoropropane	Unspecified
		3-chloro-1,1,1,3-tetrafluoropropane	Unspecified
		3-chloro-1,1,2,3-tetrafluoropropane	Unspecified
		1,1,1-trichloro-2-fluoropropane	Unspecified
		1,1,1-trichloro-3-fluoropropane	Unspecified
		1,1,2-trichloro-3-fluoropropane	Unspecified
		1,1,3-trichloro-3-fluoropropane	Unspecified
		1,2,2-trichloro-1-fluoropropane	Unspecified
		1,2,3-trichloro-1-fluoropropane	Unspecified
		Dichlorodifluoropropane (HCFC 252)	Unspecified
		1,1-dichloro-1,2-difluoropropane	Unspecified
		1,1-dichloro-2,3-difluoropropane	Unspecified
		1,2-dichloro-1,2-difluoropropane	Unspecified
		1,3-dichloro-1,3-difluoropropane	Unspecified
		2,2-dichloro-1,1-difluoropropane	Unspecified
		2,2-dichloro-1,3-difluoropropane	Unspecified
		2-chloro-1,1,3-trifluoropropane	Unspecified
		3-chloro-1,1,3-trifluoropropane	Unspecified
		(1-chloro-1,3,3-trifluoropropane)	Unspecified
		1-chloro-1,2,3-trifluoropropane	Unspecified
		2-chloro-1,2,3-trifluoropropane	Unspecified
		2,2-dichloro-1-fluoropropane	Unspecified
		2-chloro-1,2-difluoropropane	Unspecified
		1-chloro-1,3-difluoropropane	Unspecified
		CH ₂ FBr	Unspecified
		C ₂ H ₂ FBr ₄	Unspecified
		C ₂ H ₂ F ₄ Br	Unspecified
		C ₂ H ₂ FBr ₃	Unspecified
		C ₃ H ₂ F ₅ Br ₂	Unspecified
		C ₃ H ₂ F ₃ Br ₃	Unspecified
		C ₃ H ₂ F ₅ Br	Unspecified
		C ₃ H ₃ F ₂ Br ₃	Unspecified
		C ₃ H ₃ F ₃ Br ₂	Unspecified
		C ₃ H ₃ F ₄ Br	Unspecified
		C ₃ H ₄ FBr ₃	Unspecified
		C ₃ H ₄ F ₂ Br ₂	Unspecified
		C ₃ H ₄ F ₃ Br	Unspecified
		C ₃ H ₅ FBr ₂	Unspecified
		C ₃ H ₆ FBr	Unspecified
		Other Ozone depleting substances and its compounds	Unspecified
49	Radioactive Substances	Americium	7440-35-9
		Strontium	7440-29-6
		Uranium	7440-61-6
51	Polyvinyl chloride (PVC)	Acetic acid ethenyl ester, polymer with chloroethene	9003-22-9
		Polyvinyl chloride (PVC)	93050-82-9
		Other PVC compounds	Unspecified
52	Tetrabromobisphenol A (TBBP-A)	Tetrabromobisphenol-apolycarbonate	156042-31-8
		Tetrabromobisphenol A, 2,2-bis(4-(2,3-epoxypropyloxy)dibromophenyl)propane polymer	68928-70-1
53	Chlorine	Chlorine	7782-50-5
54	Bromine	Bromine	7726-95-6
55	Antimony /Antimony compounds	Other antimony compounds	Unspecified
56	Bismuth /Bismuth compounds	Other bismuth compounds	Unspecified

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
57	Metallic chromium /Chromium(III) compounds	Chromium	7440-47-3
		Chromium oxide	1308-38-9
		Basic chromic sulfate	64093-79-4
		Chromium nitrate, Nona hydrate $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$	7789-02-8
		Ammonium chromium(III) sulfate dodecahydrate $\text{Cr}(\text{NH}_4)(\text{SO}_4)_2 \cdot 2\text{H}_2\text{O}$	10022-47-6
		Chromic chloride CrCl_3	10025-73-7
		Chromium(III) bromide CrBr_3	10031-25-1
		Chromium Trichloride Hexahydrate $\text{CrCl}_3 \cdot 6\text{H}_2\text{O}$	10060-12-5
		Chromic Sulfate $\text{Cr}_2(\text{SO}_4)_3$	10101-53-8
		Chromium Potassium Sulfate $\text{CrK}(\text{SO}_4)_2$	10141-00-1
		Chromic Acetate $\text{Cr}(\text{CH}_3\text{COO})_3$	1066-30-4
		Chromium(III) sulfide Cr_2S_3	12018-22-3
		Chromium(III) phosphate hexahydrate $\text{CrPO}_4 \cdot 6\text{H}_2\text{O}$	13475-98-4
		Chromium(III) bromide hexahydrate $\text{CrBr}_3 \cdot 6\text{H}_2\text{O}$	13478-06-3
		Chromic perchlorate $\text{Cr}(\text{ClO}_4)_3$	13537-21-8
		Chromium nitrate $\text{Cr}(\text{NO}_3)_3$	13548-38-4
		Ammonium chromic sulfate $\text{Cr}(\text{NH}_4)(\text{SO}_4)_2$	13548-43-1
		Chromium(III) iodide CrI_3	13569-75-0
		Chromate(1-), Diamine tetrakis(Thiocyanate-N)- Ammonium, (OC-6-11) trans- $\text{NH}_4[\text{Cr}(\text{NCS})_4(\text{NH}_3)_2]$	13573-16-5
		Reinecke salt monohydrate; Ammonium Tetra thiocyanate diammine chromate trans- $\text{NH}_4[\text{Cr}(\text{NCS})_4(\text{NH}_3)_2] \cdot \text{H}_2\text{O}$	13573-17-6
		Potassium hexacyano chromate(III) $\text{K}_3[\text{Cr}(\text{CN})_6]$	13601-11-1
		Chromium(III) sulfate N-hydrate $\text{Cr}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	15244-38-9
		Tris(ethylene diamine)chromium(III)Chloride hydrate $[\text{Cr}(\text{C}_2\text{H}_8\text{N}_2)_3]\text{Cl}_3 \cdot 3\text{H}_2\text{O}$	16165-32-5
		Chromium(III) acetyl acetonate $\text{Cr}(\text{C}_5\text{H}_7\text{O}_2)_3$	21679-31-2
		Chromium(III) nitride CrN	24094-93-7
		Chromium(III) acetate monohydrate $\text{Cr}(\text{CH}_3\text{COO})_3 \cdot \text{H}_2\text{O}$	25013-82-5
		Chromium phosphide CrP	26342-61-0
		Chromium(III) oxalate $\text{Cr}_2(\text{C}_2\text{O}_4)_3$	30737-19-0
		Chromium(III) perchlorate hexahydrate $\text{Cr}(\text{ClO}_4)_3 \cdot 6\text{H}_2\text{O}$	55147-94-9
		Chromium(III) fluoride CrF_3	7788-97-8
		Chromium potassium sulfate dodeca hydrate $\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	7788-99-0
		Chromium(III) phosphate CrPO_4	7789-04-0
		Chrome sulfate	64093-79-9
		Other trivalent chromium compounds	Unspecified
58	Copper /Copper compounds	Other copper compounds	Unspecified
59	Indium /Indium compounds	Indium	7440-74-6
		Other Indium compounds	Unspecified
60	Manganese /Manganese compounds	Manganese	7439-96-5
		Manganese(II) chloride; Manganese dichloride MnCl_2	7773-01-5
		Manganese(II) bromide tetrahydrate $\text{MnBr}_2 \cdot 4\text{H}_2\text{O}$	10031-20-6
		Manganese hypophosphite $\text{Mn}(\text{PH}_2\text{O}_2)_2$	10043-84-2
		Manganese(II) sulfate heptahydrate $\text{Mn}(\text{C}_2\text{O}_4) \cdot 2\text{H}_2\text{O}$	10034-96-5
		Sodium permanganate NaMnO_4	10101-50-5
		Manganese(III) phosphate hydrate $\text{MnPO}_4 \cdot \text{H}_2\text{O}$	10124-54-6
		Dimanganese decacarbonyl $\text{Mn}_2(\text{CO})_{10}$	10170-69-1
		Manganese(II) nitrate $\text{Mn}(\text{NO}_3)_2$	10377-66-9
		Manganese phosphide MnP	12032-78-9
		Manganese silicide MnSi	12032-86-9
		Manganese telluride MnTe	12032-88-1
		Maneb $\text{C}_4\text{H}_6\text{MnN}_2\text{S}_4$	12427-38-2
		Manganese carbide Mn_3C	12777-96-7
		Manganese(IV) oxide MnO_2	1313-13-9
		Manganese(III) oxide, 98%(assay); manganese trioxide Mn_2O_3	1317-34-6
		Manganomanganic oxide; manganese tetra oxide; trimanganese tetraoxide; manganese(II,III)	1317-35-7

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
60	Manganese /Manganese compounds	Manganese(II) sulfate MnSO_4	13224-08-3
		Manganese(II) oxide MnO	1344-43-0
		Manganese(II) bromide MnBr_2	13446-03-2
		Manganese(II) chloride tetrahydrate $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	13446-34-9
		Ammonium manganese sulfate $\text{Mn}(\text{NH}_4)_2(\text{SO}_4)$	13566-22-8
		Manganese(II) sulfite MnSO_3	13568-71-3
		Manganese(II) phosphate $\text{Mn}_3(\text{PO}_4)_2$	14154-9-7
		Acetylacetone manganese(III) salt; Tris(2,4-pentanedionate)manganese; $\text{Mn}(\text{C}_5\text{H}_7\text{O}_2)_3$	14284-89-0
		Manganese(II) perchlorate $\text{Mn}(\text{ClO}_4)_2$	15364-94-0
		Manganese(II) nitrate hexahydrate $\text{Mn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	17141-63-8
		Manganese sulfide MnS	18820-29-6
		Potassium deoxy manganate KMnO_4	7722-64-7
		Manganese difluoride MnF_2	7782-64-1
		Manganese phosphate, dibasic MnHPO_4	7782-76-5
		Manganese(II) hypophosphite monohydrate $\text{Mn}(\text{PH}_2\text{O}_2) \cdot 2\text{H}_2\text{O}$	7783-16-6
		Manganese(II) carbonate MnCO_3	598-62-9
		Manganese(II) acetate tetrahydrate $\text{Mn}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$	6156-78-1
		Manganese(II) acetate $\text{Mn}(\text{CH}_3\text{COO})_2$	638-38-0
		Manganese oxalate $\text{Mn}(\text{C}_2\text{O}_4)$	640-67-5
		Manganese(II) oxalate dihydrate $\text{Mn}(\text{C}_2\text{O}_4) \cdot 2\text{H}_2\text{O}$	6556-16-7
		Manganese(III) fluoride MnF_3	7783-53-1
		Manganese(II) iodide MnI_2	7790-33-2
		Manganese(III) acetate $\text{Mn}(\text{CH}_3\text{COO})_3$	993-2-2
		Other manganese compounds	Unspecified
61	Molybdenum /Molybdenum compounds	Molybdenum	7439-98-7
		Other molybdenum compounds	Unspecified
62	Silver /Silver compounds	Potassium dicyanoargentate	506-61-6
		Other Silver compounds	Unspecified
63	Tellurium /Tellurium compounds	Tellurium	13494-80-9
		Other Tellurium compounds	Unspecified
64	Thallium /Thallium compounds	Other thallium compounds	Unspecified
65	Vanadium /Vanadium compounds	Vanadium	7440-62-2
		Other vanadium compounds	Unspecified
66	Zinc /Zinc compounds	Propineb	12071-83-9
		Zinc perchlorate hexahydrate $\text{Zn}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$	10025-64-6
		Zinc iodide ZnI_2	10139-47-6
		Zinc nitrate hexahydrate $\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	10196-18-6
		Zinc chlorate $\text{Zn}(\text{ClO}_3)_2$	10361-95-2
		Zinc nitride Zn_3N_2	1313-49-1
		Zinc phosphide Zn_3P_2	1314-84-7
		Zinc telluride ZnTe	1315-11-3
		Zinc perchlorate $\text{Zn}(\text{ClO}_4)_2$	13637-61-1
		Ammonium zinc sulfate $(\text{NH}_4)_2\text{Zn}(\text{SO}_4)_2$	13814-87-4
		Potassium zinc sulfate $\text{K}_2\text{Zn}(\text{SO}_4)_2$	13932-17-7
		Zinc phosphate, monobasic $\text{Zn}(\text{H}_2\text{PO}_4)_2$	14485-28-0
		Zinc ammonium chloride $(\text{NH}_4)_2[\text{ZnCl}_4]$	14639-97-5
		Zinc hypophosphite $\text{Zn}(\text{PH}_2\text{O}_2)_2$	15060-64-7
		Zinc fluorosilicate $\text{Zn}[\text{SiF}_6]$	16871-71-9
		Dimethyl zinc $\text{Zn}(\text{CH}_3)_2$	544-97-8
		Diethyl zinc $\text{Zn}(\text{C}_2\text{H}_5)_2$	557-20-0
		Zinc cyanide $\text{Zn}(\text{CN})_2$	557-21-1
		Zinc acetate $\text{Zn}(\text{CH}_3\text{COO})_2$	557-34-6
		Zinc thiocyanate $\text{Zn}(\text{SCN})_2$	557-42-6
		Zinc fluoride tetrahydrate $\text{ZnF}_2 \cdot 4\text{H}_2\text{O}$	73640-07-0
		Sulfuric acid, zinc salt(1:1), Heptahydrate $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	7446-20-0
		Zinc acetate dihydrate $\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$	5970-45-6
		Zinc chloride ZnCl_2	7646-85-7
		Zinc bromide ZnBr_2	7699-45-8

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
66	Zinc /Zinc compounds	Zinc sulfate ZnSO ₄	7733-02-0
		Zinc hydrosulfite ZnS ₂ O ₄	7779-86-4
		Zinc nitrate Zn(NO ₃) ₂	7779-88-6
		Zinc fluoride ZnF ₂	7783-49-5
		Ammonium zinc sulfate hydrateE (NH ₄) ₂ Zn(SO ₄) ₂ ·6H ₂ O	77998-33-5
		Other zinc compounds	Unspecified
67	Metallic carbonyls	Iron carbonyl	13463-40-6
		Other metallic carbonyls	Unspecified
68	Magnesium	Magnesium	7439-95-4
		Other Magnesiums	Unspecified
69	Palladium /Palladium compounds	Palladium	7440-05-3
		Other Palladium compounds	Unspecified
70	Gold /Gold compunds	Gold	7440-57-5
		Other gold compunds	Unspecified
71	Azo compounds (except Certain Azocolourants and Azodyes (No.8))	Di methyl amino azo benzene	60-11-7
		Other Azo and its compounds	Unspecified
72	Chlorinated paraffine (except short chain chlorinated paraffins (No.9))	Long chain chlorinated paraffins (C18-30)	Unspecified
73	Cyanogen /Cyanogen compounds	Sodium cyanide	143-33-9
		Hydrogen cyanide	74-90-8
		o-phthalodinitrile	91-15-6
		Ethylene cyanohydrin	109-78-4
		Cyanazine	21725-46-2
		Benzyl cyanide	140-29-4
		Phenyl cyanide	100-47-0
		2,6 - Di chloro benzo nitrile	1194-65-6
		Thallium(I) cyanide TlCN	13453-34-4
		Copper cyanide Cu(CN) ₂	14763-77-0
		Potassium cyanide KCN	151-50-8
		Calcium cyanamide CCaN ₂	156-62-7
		Palladium(II) cyanide Pd(CN) ₂	2035-66-7
		Cesium cyanide CsCN	21159-32-0
		Cyanamide NCNH ₂	420-04-2
		Cyanogen (CN) ₂	460-19-5
		Silvber cyanide AgCN	506-64-9
		Gold(I) cyanide AuCN	506-65-0
		Cyanogen bromide CNBr	506-68-3
		Cyanogen chloride CNCl	506-77-4
		Cyanogen iodide CNI	506-78-5
		Gold(I)cyanide trihydrate Au(CN) ₃ ·3H ₂ O	535-37-5
		Cuprous cyanide CuCN	544-92-3
		Calcium cyanide Ca(CN) ₂	592-01-8
		Platinam(II) cyanide Pt(CN) ₂	592-06-3
		Trimethylsilyl cyanide Si(CN)(CH ₃) ₃	7677-24-9
		Sodium cyanide CNNaO	917-61-3
		Other inorganic cyanide	Unspecified
		Other organo cyanide	Unspecified
74	Brominated Flame Retardants (except for PBBs, PBDEs and TBBP-A)	Brominated flame retardant which comes under notation of ISO 1043 - 4 code number FR(14) [Aliphatic/alicyclic brominated compounds]	Unspecified
		Brominated flame retardant which comes under notation of ISO 1043 - 4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	Unspecified

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
74	Brominated Flame Retardants (except for PBBs, PBDEs and TBBP-A)	Brominated flame retardant which comes under notation of ISO 1043 - 4 code number FR(16) [Aromatic brominated compounds (excluding brominated diphenyl ether and biphenyls)]	Unspecified
		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]	Unspecified
		Brominated flame retardant which comes under notation of ISO 1043 - 4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	Unspecified
		Brominated flame retardant which comes under notation of ISO 1043 - 4 code number FR(42) [Brominated organic phosphorus compounds]	Unspecified
		1,1,2,2, - Tetea bromo ethane	79-27-6
		Hexa bromo benzene	87-82-1
		Poly tetra fluoro ethylene	9002-84-0
		Bromodichloromethane	75-27-4
		Brominated polystyrene (Benzene, Ethenyl-, Homopolymer, Brominated)	88497-56-7
75	Halogenated fire retardants/halogenated resin additives	Bisphenol A diglycidyl ether resin	25068-38-6
		Bisphenol F/ Epichlorohydrin copolymer	58421-55-9
		Tribromomethane CHBr3	75-25-2
		Halogenated benzenes	Unspecified
		Halogenated diarylalkanes	Unspecified
		Chlorinated fire retardants	Unspecified
		Other halogenated resin additives	Unspecified
76	Barium /Barium compounds	Barium carbonate	513-77-9
77	Boron /Boron compounds	Boron	7440-42-8
		Other Boron compounds	Unspecified
78	Inorganic phosphorus compounds	Phosphorus oxychloride	10025-87-3
		Phosphorus pentachloride	10026-13-8
		Phosphorus Pentasulfide	1314-80-3
		Phosphorus sesquisulfids	1314-85-8
		phosphoric acid	7664-38-2
		Phosphorus trichloride	7719-12-2
		Other inorganic phosphorus compounds	Unspecified
79	Organic phosphorus compounds	Other organic phosphorus compounds	Unspecified
80	Xylenes	Xylene	1330-20-7
		Other Xylenes	Unspecified
82	Organic esters	Acetic acid ethenyl ester; vinyl acetate	108-05-4
		Di-n-propyl phthalate	131-16-8
		Ethyl acrylate; 2-Propenoic acid, ethyl ester; ethyl acrylate	140-88-5
83	Chloro phenols	Other chloro phenols	Unspecified
84	N - nitrosamines	N - methyl - N - nitroso urea	684-93-5
		N - ethyl - N - nitroso urea	759-73-9
		N - nitroso methyl vinyl amine	4549-40-0
		Other N - nitrosamines	Unspecified
85	All flame retardants exclude halogenated substances	All flame retardants exclude halogenated substances	Unspecified
86	Red Phosphorus	Red Phosphorus	7723-14-0
87	Surfactants	Diocetyl dimethyl ammonium chloride/ Distearyl dimethyl ammonium chloride (DODMAC, DSDMAC)	107-64-2
		Dimethyl ditallow ammonium chloride (DTDMAC)	68783-78-8
89	Toluene	2-methyl-m-phenylene diisocyanate	91-08-7
90	Auramine	Auramine	2465-27-2
		Auramine	492-80-8
91	Sulfur compounds	Hydrogen Sulfide	7783-06-4

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
91	Sulfur compounds	Thiourea	62-56-6
		Disodium peroxydisulfate	7775-27-1
92	Aromatic nitro compounds	1-Chloro-4-nitrobenzene	100-00-5
		1,4-dinitrobenzene	100-25-4
		1,2-dinitrobenzene	528-29-0
		Nitroglycol	628-96-6
		Nitromethane	75-52-5
		Benzene, m-dinitro-	99-65-0
93	Hydrocarbons	Hexane	110-54-3
		Dichloropropene	542-75-6
		3-Chloro-2-methylpropene	563-47-3
		Methyl iodide	74-88-4
94	Phosphoric acid tris	TRIS(3-CHLORO-1-PROPYL)PHOSPHATE	1067-98-7
		Tris (2-chloro-1-propyl) phosphate (Tris(2-chloropropyl)	6145-73-9
		Tris(2,4di-tert-butylphenyl)phosphite	31570-04-4
		Tris (2,3-dichloro-1-propyl) phosphate (Tris(2,3-dichloropropyl) phosphate)	78-43-3
		Tris (2,3-dichloro-1-propyl) phosphate (Tris(2,3-dichloropropyl) phosphate)	78-42-2
95	4-Vinyl-1-cyclohexene diepoxide	4-Vinyl-1-cyclohexene diepoxide (Vinyl cyclohexenedioxide; 7-oxa-3-oxiranylbicyclo[4.1.0]heptane; 1,2-epoxy-4-epoxyethylcyclohexane)	106-87-6
96	Isocyanate	Methyl-1,3-phenylene diisocyanate	26471-62-5
97	1,2-Epoxybutane	1,2-Epoxybutane	106-88-7
98	Organic acids	1,4,5,6,7,7-Hexachlorobicyclo [2,2,1]-5-heptene-2,3-dicarboxylic acid	115-28-6
99	Pyridines	Pyridine	110-86-1
101	Phenol, isooctyl	Phenol, isooctyl-	11081-15-5
102	6,6'Di-tert-butyl-2,2'-methylenedi-p-cresol	6,6'Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1
103	N-[4-(acetylamino)phenyl]-4-[[5-(aminocarbonyl)-2-chlorophenyl]azo]-3-hydroxynaphthalene-2-carboxamide	N-[4-(acetylamino)phenyl]-4-[[5-(aminocarbonyl)-2-chlorophenyl]azo]-3-hydroxynaphthalene-2-carboxamide	12236-64-5
104	o-Anisidine hydrochloride	o-Anisidine hydrochloride	134-29-2
106	Phenazopyridine hydrochloride	Phenazopyridine hydrochloride	136-40-3
107	Phthalates (except for No.7)	Decyl octyl phthalate	119-07-3
		Diisohexyl phthalate	146-50-9
		Butyl decyl phthalate	89-19-0
		Butyl cyclohexyl phthalate	84-64-0
		Ditridecyl phthalate	119-06-2
		Diallyl phthalate	131-17-9
		Diisooctyl phthalate	27554-26-3
		Diisoheptyl phthalate	41451-28-9
109	Sodium Alkylbenzene Sulfonate (Sodium dodecylbenzenesulfonate)	Sodium Alkylbenzene Sulfonate (Sodium dodecylbenzenesulfonate)	25155-30-0
110	Tetrasodium [mu-[[[3,3'-[(3,3'-dihydroxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonato]](8-))]dicuprate(4-)]	Tetrasodium [mu-[[[3,3'-[(3,3'-dihydroxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonato]](8-))]dicuprate(4-)]	28407-37-6
111	1,1,5,5,5-hexamethyl-3,3-bis[(trimethylsilyl)oxy]trisiloxane	1,1,5,5,5-hexamethyl-3,3-bis[(trimethylsilyl)oxy]trisiloxane	3555-47-3

Ref.No	Substance (Group) name	Chemical substance name	CAS No.
112	Disodium 1-(2,4-dimethylphenylazo)-2-hydroxynaphthalene-3,6-disulphonate	Disodium 1-(2,4-dimethylphenylazo)-2-hydroxynaphthalene-3,6-disulphonate	3761-53-3
113	Calcium bis[4-[[3-[[2-hydroxy-3-[[4-methoxyphenyl]amino]carbonyl]-1-naphthyl]azo]-4-methylbenzoyl]amino]benzenesulphonate]	Calcium bis[4-[[3-[[2-hydroxy-3-[[4-methoxyphenyl]amino]carbonyl]-1-naphthyl]azo]-4-methylbenzoyl]amino]benzenesulphonate]	43035-18-3
114	3',6'-Bis(N,N-Diethylamino)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one	3',6'-Bis(N,N-Diethylamino)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one	509-34-2
115	Lithium carbonate	Lithium carbonate	554-13-2
117	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	712-68-5
118	Hexane, 2,5-dimethyl-2,5-bis(t-butylperoxy)-	Hexane, 2,5-dimethyl-2,5-bis(t-butylperoxy)-	78-63-7
119	(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride	(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride	81-88-9
120	1-Amino-2-methylantraquinone	1-Amino-2-methylantraquinone	82-28-0
121	2-Amino-4-nitro anisidine	2-Amino-4-nitro anisidine	99-59-2
122	alkylphenols	Alkylphenols	Unspecified
123	Zinc chromate	Zinc chromates including zinc potassium chromate	Unspecified
124	Perfluorinated Carboxylic Acids (PFCAs)	Perfluorinated Carboxylic Acids (PFCAs)	Unspecified
125	Silica, crystalline	Silica, crystalline (airborne particles of respirable size)	Unspecified

Document-1

List of Exempted Items

Substances to be prohibited shall be disused in principle except for the following applications.

No	Substance (Group) name	Exemptions No	Exemptions	Expiry Date
1	Cadmium /Cadmium compounds	8(b)-I	Cadmium and its compounds in electrical contacts used in: — circuit breakers, — thermal sensing controls, — thermal motor protectors (excluding hermetic thermal motor protectors), — AC switches rated at: — 6 A and more at 250 V AC and more, or — 12 A and more at 125 V AC and more, — DC switches rated at 20 A and more at 18 V DC and more, and — switches for use at voltage supply frequency ≥ 200 Hz.	21 Jul 2021
		13(b)-II	Cadmium in striking optical filter glass types	21 Jul 2021
		13(b)-III	Cadmium in glazes used for reflectance standards	21 Jul 2021
		21(a)	Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	21 Jul 2021
		21(b)	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	21 Jul 2021
3	Lead /Lead compounds	5(b)	Lead in glass of fluorescent tubes not exceeding 0.2 % by weight	
		6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	21 Jul 2021
		6(b)-I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	21 Jul 2021
		6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	18 May 2021
		6(c)	Copper alloy containing up to 4 % lead by weight	21 Jul 2021
		7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	21 Jul 2021
		7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g., piezoelectronic devices, or in a glass or ceramic matrix compound	21 Jul 2021
		7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	21 Jul 2021
		7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors	21 Jul 2021
		13(a)	Lead in white glasses used for optical applications	21 Jul 2021
		13(b)-I	Lead in ion coloured optical filter glass types	21 Jul 2021
		13(b)-III	Lead in glazes used for reflectance standards	21 Jul 2021
		15(a)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: — a semiconductor technology node of 90 nm or larger; — a single die of 300 mm ² or larger in any semiconductor technology node; — stacked die packages with die of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger.	21 Jul 2021
		18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi ₂ O ₅ Pb)	21 Jul 2021
		21(c)	Lead in printing inks for the application of enamels on other than borosilicate glasses	21 Jul 2021
		24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer	21 Jul 2021
		29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	21 Jul 2021
		32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	21 Jul 2021
		34	Lead in cermet-based trimmer potentiometer elements	21 Jul 2021
		37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	21 Jul 2021
4	Mercury /Mercury compounds	1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
		1(a)	For general lighting purposes < 30 W: 2.5 mg	
		1(b)	For general lighting purposes > 30 W and < 50 W: 3.5 mg	
		1(c)	For general lighting purposes > 50 W and < 150 W: 5 mg	
		1(d)	For general lighting purposes > 150 W: 15 mg	
		1(e)	For general lighting purposes with circular or square structural shape and tube diameter < 17 mm: 7 mg	
		1(f)	For special purposes: 5 mg	
		2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	
		2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	
		2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter > 9 mm and < 17 mm (e.g. T5): 3 mg	
		2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and < 28 mm (e.g. T8): 3.5 mg	
		2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3.5 mg	
		2(a)(5)	Tri-band phosphor with long lifetime (> 25,000 h): 5 mg	
		2(b)	Mercury in other fluorescent lamps (per lamp):	
		2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 15 mg or less (< 15 mg)	
		2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg or less (< 15 mg)	
		3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes (per lamp):	
		3(a)	Short length (< 500 mm): 3.5 mg or less (< 3.5 mg)	
		3(b)	Medium length (> 500 mm and < 1,500 mm): 5 mg or less (< 5 mg)	
		3(c)	Long length (> 1,500 mm): 13 mg or less (< 13 mg)	
		4(a)	Mercury of 15 mg or less (< 15 mg) in other low pressure discharge lamps (per lamp)	
		4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes (per burner) in lamps with improved colour rendering index Ra > 60:	
		4(b)-I	P < 155 W: 30 mg or less (< 30 mg)	
		4(b)-II	155 W < P < 405 W: 40 mg or less (< 40 mg)	
		4(b)-III	P > 405 W: 40 mg or less (< 40 mg)	
		4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes (per burner):	
		4(c)-I	P < 155 W: 25 mg or less (< 25 mg)	
		4(c)-II	155 W < P < 405 W: 30 mg or less (< 30 mg)	
		4(c)-III	P > 405 W: 40 mg or less (< 40 mg)	
		4(e)	Mercury in metal halide lamps (MH)	
		4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	
15	Perfluorooctane sulfonate and its salts (PFOS)	-	PFOS in photoresists or anti reflective coatings for photolithography processes	
	Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances		PFOS in photographic coatings applied to films, papers, or printing plates Molded products with photographic coating for film or paper or printing plate Semiconductors and compound semiconductors manufactured by use in photolithographic processes for semiconductors or etching processes for compound semiconductors	

* If the exemptions and their expiry dates are revised in conjunction with amendments to the exemptions of the RoHS Directive, please apply the exemptions and their expiry dates of the latest legal requirements to this table

Standards for Chemical Content			
No	Substance (Group) name	Parts and materials to be reported	Threshold Limit (ppm)
1	Cadmium / Cadmium Compounds	All except batteries (Refer to Exempted Application in Document-1)	0.01% (100 ppm) by weight in any homogeneous material In case that Target Item is a packaging material, sum of concentration in Material of the 4 substances (Cadmium,Chromium VI ,Lead,Mercury) must not exceed 100 ppm
		Batteries	0.0005% (5 ppm) by weight in batteries
2	Hexavalent Chromium Compounds	All	0.1% (1000 ppm) by weight in any homogeneous material In case that Target Item is a packaging material, sum of concentration in Material of the 4 substances (Cadmium,Chromium VI ,Lead,Mercury) must not exceed 100 ppm
3	Lead / Lead Compounds	All except the objects to be shown below (Refer to Exempted Application in Document-1)	0.1% (1000 ppm) by weight in any homogeneous material In case that Target Item is a packaging material, sum of concentration in Material of the 4 substances (Cadmium,Chromium VI ,Lead,Mercury) must not exceed 100 ppm
		External cables, wires, and cords coated with thermoset resins or thermoplastic resins	0.03% (300 ppm) by weight in surface coating
		Batteries	0.004% (40 ppm) by weight
4	Mercury / Mercury Compounds	All except batteries (Refer to Exempted Application in Document-1)	Intentional addition or 0.1% (1000 ppm) by weight in any homogeneous material In case that Target Item is a packaging material, sum of concentration in Material of the 4 substances (Cadmium,Chromium VI ,Lead,Mercury) must not exceed 100 ppm
		Batteries	0.0001% (1 ppm) by weight
5	Polybrominated Biphenyls (PBBs)	All	0.1% (1000 ppm) by weight in any homogeneous material
6	Polybrominated Diphenylethers (PBDEs)	All	0.1% (1000 ppm) by weight in any homogeneous material
7	Phthalates	All	0.1% (1000 ppm) by weight in any homogeneous material
8	Certain Azocolourants and	Textiles and leather products that are possible to contact skins for	0.003% (30 ppm) by weight in any finish textile/leather product
9	Short Chain Chlorinated Paraffins	All	0.1% (1000 ppm) by weight in any product
10	Form aldehyde	Composite wood products(plywood, particle board, MDF) or parts	0.000005% (0.05 ppm) by weight in Emission concentration
		Textiles	0.0075% (75 ppm) by weight in any textile product
11	Pentachlorophenol (PCP) and its salts and esters	All	0.01% (100 ppm) by weight in any homogeneous material
12	Monomethyl-dibromo-diphenyl methane (DBBT)	All	Intentional addition
13	Monomethyltetrachlorodiphenylmethane(Trade Name:Ugilec 141)	All	Intentional addition
14	Monomethyldichlorodiphenylmethane(Trade Name:Ugilec 121, Ugilec 21)	All	Intentional addition
15	Perfluorooctane sulfonate and its salts (PFOS),Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances	All (Refer to Exempted Application in Document-1)	PFOS:Intentional addition PFOA:0.0000025%(25ppb) by weight in a article, 0.0001%(1,000ppb) of one or a combination of PFOA-related substance
16	Cobalt chlorides	Humidity indicator used for silicagel	Intentional addition
17	Dimethyl fumarate (DMF)	All	0.00001% (0.1 ppm) by weight in a material
18	Arsenic / Arsenic compounds	All except application to semiconductors, crystal, glass, emulsion, magnets, filters, copper, brass, or batteries	0.1% (1000 ppm) by weight in any homogeneous material
19	Nickel / Nickel compounds	Products that maintain direct, sustained contact with the skin(e.g. earrings, necklaces, bracelets, chains, anklets, rings, wristwatch	Intentional addition
20	Chlorinated hydrocarbons	All	0.1% (1000 ppm) by weight in any homogeneous material
21	Polycyclic aromatic hyd hydrocarbons (PAH)	All	Intentional addition
22	Perchlorates	All	0.0000006% (0.006 ppm) by weight in any product
23	Fluorinated greenhouse gases (PFC, SF6, HFC)	All	Intentional addition
24	Dibutyltin compounds (DBT)	All (Refer to Exempted Application in Document-1)	0.1% (1000 ppm) by weight of tin in a material
25	Diocetyl tin compounds (DOT)	Textiles and leather articles intended to come into contact with the skin	0.1% (1000 ppm) by weight of tin in a material
26	Asbestos	All	Intentional addition
27	Tributyl Tin Oxide (TBTO)	All	Intentional addition, or 0.1% (1000 ppm) by weight in any product
28	Tri-substituted organostannic compounds,Tributyl Tin(TBT) and Triphenyl Tin (TPT)	All	Intentional addition, 0.1% (1000 ppm) by weight of tin in a material
29	Polychlorinated Biphenyls(PCBs) and Polychlorinated Terphenyl (PCTs)	All	PCBs,Intentional addition/PCTs,0.005% (50 ppm) by weight in any homogeneous material
30	Polychlorinated Naphthalenes (more than 1 chlorine atoms)	All	Intentional addition
31	Specific amine	Textiles and leather products that are possible to contact skins for	0.003% (30 ppm) by weight in any finish textile/leather product
32	Aromatic amines excluding the above specific amine	Textiles and leather products that are possible to contact skins for long time	0.003% (30 ppm) by weight in any finish textile/leather product
33	Chlordanes	All	Intentional addition
34	Hexa chloro benzene and	All	Intentional addition
35	DDT (Chloro phenothane)	All	Intentional addition
36	Organic chlorine chemicals (Aldrin, Dieldrin, Endrin)	All	Intentional addition
37	Dioxins	All	Intentional addition
38	Ozone Depleting Substances	All	Intentional addition
39	N-p-phenylenediamine	All	Intentional addition
40	Do deca chloro octa hydro-1,3,4-metheno -2H-cyclo buta	All	Intentional addition
41	Toxaphene	All	Intentional addition
42	Bis (chloro methyl) ether	All	Intentional addition
43	2,4,6- tri -t- butyl phenol	All	Intentional addition
44	Yellow phosphorus	All	Intentional addition
45	2,2,2-Trichloro-1,1-Bis (4-Chlorophenyl) Ethanol (Kelthane, DicofoI)	All	Intentional addition
46	Hexachlorobutadiene (HCBD)	All	Intentional addition
47	Specified benzotriazole 2-(2H-1,2,3-benzotriazole-2-Il)-4,6-di-tert-butylphenol	All	Intentional addition
48	Beryllium oxide	All	Intentional addition
49	Radioactive Substances	All	Intentional addition
50	Hexabromocyclododecane	All	Intentional addition
51	Polyvinyl Chloride (PVC)	Plastic materials Packaging materials used for products and accessories,etc. that come with products	Intentional addition
52	Tetrabromobisphenol-A (TBBP-A)	Application to the external appearance of products All except application to the external appearance of products	must not contain 0.1% (1000 ppm) by weight in any homogeneous material
53	Chlorine	All	0.09wt%(900ppm) by weight in any homogeneous material, Total chlorine and bromine content: 0.15 wt% (1500 ppm)
54	Bromine	All	0.09wt%(900ppm) by weight in any homogeneous material, Total chlorine and bromine content: 0.15 wt% (1500 ppm)

Revision History

Revision	Date	Description
1.0	Oct. 1, 2010	Issued the initial version (Separated from TEAC green guideline (ES0101 2.3 edition)) - Deleted the following two substances to be prohibited "Halogenated Aromatic Substances (Prohibited from use in capacitors and transformers only)," "Tetra methyl thiuram di sulfide (Thiuram)" - Added the following six substances to be reduced to the List of substances to be prohibited "Arsenic /Arsenic compounds," "Nickel and Nickel compounds," "Fluorinated greenhouse gases (PFC, SF6, HFC)," "Beryllium oxide," "Radioactive Substances," "Tetrabromobisphenol A (TBBP-A)" - The rest of the "substances to be reduced" moved to the "List of substances to be controlled" or deleted - Added four substances to be controlled to the List of substances to be prohibited "Pentachlorophenol (PCP) and its salts and esters," "Cobalt chlorides," "Polycyclic aromatic hydrocarbons (PAHs)," "Phthalates (DEHP, DBP, BBP, DINP, DIDP, DNOP)" - Added ten substances to the "List of substances to be prohibited" as new substances "Monomethyl-dibromo-diphenyl methane (DBBT)," "Monomethyltetrachlorodiphenylmethane (Trade Name:Ugilec 141)," "Monomethyldichlorodiphenylmethane (Trade Name:Ugilec 121, Ugilec 21)," "Perfluorooctane sulfonate and its salts (PFOS)," "Dimethyl fumarate (DMF)," "Chlorinated hydrocarbons," "Perchlorates," "2,2,2-Trichloro-1,1-Bis (4-Chlorophenyl) Ethanol (Kelthane, Dicofol)," "Hexachlorobutadiene (HCBD)," "Specified benzotriazole 2-(2H-1,2,3-benzotriazole-2-yl)-4,6-di-tert-butylphenol"
2.0	Mar. 22, 2013	- Added the following substances to the "List of substances to be prohibited": "Dibutyltin compounds (DBT)" and "Diocetyl tin compounds (DOT)" - Added "Tri-substituted organostannic compounds" to the following substances group to be prohibited: " Tributyl Tin (TBT) and "Triphenyl Tin (TPT)" - Added "Benzen" to the following substances group to be prohibited: "Hexa chloro benzene" - Revised the Document-1 List of Exempted Items - Added the Document-2 Standards for Chemical Content - Deleted the substances in the List of JAMP substances to be managed (up to Ver 3.020) from the List of example substances
3.0	Feb. 10, 2016	- Deleted the following substances to the "List of substances to be prohibited": "Di -u- oxo - di -n- butyl stannio hydroxy borane (DBB)" (To become a substance group of "dibutyltin compounds (DBT)") - Added the following substances to the "List of substances to be prohibited": "Hexabromocyclododecane (HBCDD)" - Deleted the substances in the List of JAMP substances to be managed (up to Ver 4.050) from the List of example substances - Revised the Document-1 List of Exempted Items - Revised the Document-2 Standards for Chemical Content
4.0	May. 16, 2019	- Added the following substances to the " List of substances to be prohibited". "Phthalates (DEHP,BBP,DBP,DIBP)" - Change the number of Chlorine atoms from "3" to "2" on the Polychlorinated Naphthalenes in the "List of substances to be prohibited" as follows. "Polychlorinated Naphthalenes (more than 2 chlorine atoms)" - Added the example substances (Aldrin,Dieldrin,Endrin) on the Organic chlorine chemicals in the "List of substances to be prohibited" - Changed Declarable Substance from JAMP Declarable Substances to chemSHERPA Declarable - Deleted the substances in the List of chemSHERPA Declarable Substances(up to Ver 1.07.00) from the List of example substances - Revised the Document-1 List of Exempted Items - Revised the Document-2 Standards for Chemical Content
5.0	Jul. 04, 2020	- Added the following substances to the " List of substances to be prohibited". "Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances" - Polychlorinated Naphthalenes: (Cl: 2 or more) => (Cl: 1 or more) - Deleted the substances in the List of chemSHERPA Declarable Substances(up to Ver 2.01.00) from the List of example substances - Revised the Document-1 List of Exempted Items - Revised the Document-2 Standards for Chemical Content
5.1	Jul. 01, 2025	Updated the download location for the guideline.

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