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List of Environmental Impact Substances

Responsible Care Headquarters
Sanyo Chemical Industries, Ltd.



Environmental Impact Substances

We define both Prohibited Substances (level 1) and Limited Use Substances (level 2) as Environmental Impact Substances.

Management Level

All chemical substances are classified to the following three levels shown in Table A, according to our risk assessment and considering both hazard evaluations and risk (possibility) of exposure in Sanyo Chemical.

Table A Classification of Management Level

Management Level	Definition	Example
1 Prohibited Substances	Substances to be prohibited without exception in all cooperate operations	PCBs, benzene, trichloroethylene, carbon tetrachloride, CFCs, halon, tributyltin compounds, cadmium compounds, mercury compounds, hexavalent chromium compounds, etc. (See Table 1)
2 Limited Use Substances	Substances to be promoted to reduce using by substituting to another substance, which are expected not to be used, treated and generated at the point of environmental view.	1,2-dichloroetane, dichlorometane, 1,2-dichloropropane, formaldehyde, alkylphenols and their alkyleneoxide adducts, lead compounds, HCFCs, etc. (See Table 2)
3 Controlled Substances	Substances which are all except level 1 and level 2, which emissions and/or transference to the environment in all corporations is to be reduced	

Management Method at Each Division

Classified substances are managed and controlled according to the following table B.

Table B Role of each division

Substances Division	Prohibited Substances	Limited Use Substances	Controlled Substances
Research & Development	Do not use, treat and generate in all corporate operations	i) Do not use in new product in principle ii) Promote substitution to another materials in present products	Consider measures to reduce emission and/or transference to the environment Consider measures to reuse and recycle the waste
Production		Promote to reduce using in corporation with R&D	i) Keep substances safely and use them properly according to laws and regulations ii) Measure or estimate the amount of the emissions, then reduce them iii) Promote reusing and recycling the waste
Purchasing		Procure materials on the basis of Green Procurement Standard	
Sales & Marketing		Supply the product information to customers	

Review of Management Level

Prohibited Substances and Limited Use Substances may be revised at any time in accordance with laws, regulations, social trends, advances in technology and others.

(Table-1)

List of Environmental Impact Substances

Type	Class	No.	Substance Name	Other Name	Example of CAS No.
Metal Compounds	Level 1	1009	Bis(tributyltin)oxide	-	000056-35-9
		1015	Triphenyltin compounds	-	-
		1016	Tributyltin compounds	-	-
		1035	Beryllium and its compounds	-	-
		1064	Tetraalkyl lead	-	000075-74-1
		1072	Aluminum phosphide	-	-
		1075	Chromium(VI) compounds	-	-
		1076	Arsenic and its inorganic compounds	-	-
		1077	Cadmium and its compounds	-	-
		1078	Mercury and its compounds	-	-
		1097	Tetraphenylstannane	-	000595-90-4
	1109	Dibutyltin hydrogen borate	-	075113-37-0	
	Level 2	2020	Thallium and its water-soluble compounds	-	-
		2025	Inorganic cyanide compounds (except complex salts and cyanates)	-	-
		2026	Chromium and chromium(III) compounds	-	-
		2029	Silver and its water-soluble compounds	-	-
		2038	Selenium and its compounds	-	-
	2054	Lead and its compounds	-	-	
	Halogen Compounds	Level 1	1001	Polychlorinated biphenyls	PCBs
1002			Polychlorinated Naphthalenes (with more than 3 chlorine atoms)	-	-
1012			Trichloroethylene	-	000079-01-6
1013			Tetrachloroethylene	-	000127-18-4
1014			Ozone Depleting Substance Group B II	(See the attached Table-1)	-
1017			Ozone Depleting Substance Group A I		
1018			Ozone Depleting Substance Group B I		
1019			Ozone Depleting Substance Group A II		
1020			Ozone Depleting Substance Group B III		
1021			Ozone Depleting Substance Group C II		
1022			Ozone Depleting Substance Group E I		
1084			Ozone Depleting Substance Group C III		
1028			Oxybis[chloromethane]	-	000542-88-1
1031			Dichlorobenzidine	-	001331-47-1
1036			Benzylidene trichloride	-	000098-07-7
1070			Fluoroacetic acid	-	000144-49-0
1071			2-Fluoroacetamide	-	000640-19-7
1073			Dioxins	(See the attached Table-2)	-
1079			1,2,3-Trichlorobenzene	-	000087-61-6
1080			1,2,4-Trichlorobenzene	-	000120-82-1
1081			Dodecachloropentacyclo[5.3.0.0(2.6).0(3.9).0(4.8)]decane	Mirex	002385-85-5
1085			Polybrominated Biphenyls	PBBs	-
1086			Polybrominated Diphenyl ethers	PBDEs	-
1088	Short Chain Chlorinated Paraffins ; C10-13, chlorine%>60%		-		
1090	1,1-dichloro-1-fluoroethane	HCFC141b	001717-00-6		
1092	Hexachlorobuta-1,3-diene	-	000087-68-3		
1096	1,2,5,6,9,10-Hexabromocyclododecane	-	003194-55-6		

(Table-1)

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Type	Class	No.	Substance Name	Other Name	Example of CAS No.
Halogen Compounds	Level 1	1098	1,3,5-Tribromo-2-(2,3-dibromo-2-methylpropoxy)-benzene	-	036065-30-2
		1099	Phosphonothioic acid, phenyl-, O-(2,4-dichlorophenyl) O-ethyl ester	-	003792-59-4
	Level 2	2001	Ozone Depleting Substance Group C I except HCFC-141b	(See attached Table-5)	-
		2006	1,2-Dichloroethane	-	000107-06-2
		2007	Dichloromethane	Methylene dichloride	000075-09-2
		2008	1,2-Dichloropropane	-	000078-87-5
		2011	Chloroethylene	Vinyl chloride	000075-01-4
		2015	Pentachlorophenol	-	000087-86-5
		2027	Tribromomethane	Bromoform	000075-25-2
		2028	p-Dichlorobenzene	-	000106-46-7
		2031	1,1-Dichloroethylene	Vinylidene dichloride	000075-35-4
		2032	cis-1,2-Dichloroethylene	-	000156-59-2
		2033	1,1,2-Trichloroethane	-	000079-00-5
		2053	Chloroform	-	000067-66-3
		2057	2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-phenol	-	003864-99-1
Pesticides	Level 1	1003	Hexachlorobenzene	-	000118-74-1
		1004	1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-end-5,8-dimethanonaphtharene	Aldrin	000309-00-2
		1005	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-end-5,8-dimethanonaphtharene	Dieldrin	000060-57-1
		1006	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-end-1,4-end-5,8-dimethanonaphtharene	Endrin	000072-20-8
		1007	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	DDT	000050-29-3
		1008	Chlordane or Heptachlor and their mixture	-	012789-03-6
		1063	Schradan	-	000152-16-9
		1065	Parathion	-	000056-38-2
		1066	Methyl Demeton	-	008022-00-2
		1067	Phosphamidon	-	013171-21-6
		1068	Methyl Parathion	-	000298-00-0
	1069	Tetraethyl pyrophosphate	TEPP	000107-49-3	
	1082	Polychloro-2,2-dimethyl-3-methylidenbicyclo[2.2.1]heptane	Toxaphene	008001-35-2	
	1091	2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol	Kelthane; Dicofol	000115-32-2	
	Level 2	2012	9-Methoxy-7H-furo[3,2-g][1]benzopyran-7-one	Methoxsalen	000298-81-7
		2013	Dimethyl 2,2-dichlorovinyl phosphate	DDVP ; dichlorvos	000062-73-7
		2016	O,O-Diethyl S-2-(ethylthio)ethyl phosphorodithioate	Disulfoton ; ethylthiometon	000298-04-4
		2017	O,O-Diethyl O-2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate	Diazinon	000333-41-5
2018		2,3-Dihydro-2,2-dimethyl-7-benzo[b]furan N-methylcarbamate	Carbofuran	001563-66-2	
2019		O-Ethyl O-4-nitrophenyl phenylphosphonothioate	EPN	002104-64-5	
2021		6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepine 3-oxide	Endosulfan	000115-29-7	
2022	O,O-Diethyl O-6-oxo-1-phenyl-1,6-dihydro-3-pyridazinyl phosphorothioate	Pyridaphenthion	000119-12-0		

(Table-1)

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Type	Class	No.	Substance Name	Other Name	Example of CAS No.
Pesticides	Level 2	2023	O,O-Dimethyl O-3-methyl-4-nitrophenyl phosphorothioate	MEP ; fenitrothion	000122-14-5
		2024	O,O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate	Chlorpyrifos	002921-88-2
		2030	Cyanazine	-	021725-46-2
		2034	1,3-Dichloropropene	D-D	000542-75-6
		2035	Tetramethylthiuram disulfide	Thiram	000137-26-8
		2036	2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Shimazine, CAT	000122-34-9
		2037	S-4-Chlorobenzyl N,N-diethylthiocarbamate	Thiobencarb	028249-77-6
		2039	3-Amino-1H-1,2,4-triazole	Amitrole	000061-82-5
		2040	1-Naphthyl N-methylcarbamate	Carbaryl; NAC	000063-25-2
		2041	2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine	Atrazine	001912-24-9
		2042	O,O-Dimethyl S-1,2-bis(ethoxycarbonyl)ethyl phosphorodithioate	Malathon; Malathion	000121-75-5
		2043	α, α, α -Trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine	Trifluralin	001582-09-8
		2044	2,4-Dichlorophenoxyacetic acid	2,4-D, 2,4-PA	000094-75-7
		2046	α -Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)-3-methylbutyrate	Fenvalerate	051630-58-1
		2047	Methyl N-[1-(N-n-butylcarbamoyl)-1H-2-benzimidazolyl]carbamate	Benomyl	017804-35-2
		2048	2-Chloro-2',6'-diethy-N-(methoxymethyl)acetanilide	Alachlor	015972-60-8
		2049	Complex compounds of manganese N,N'-ethylenebis(dithiocarbamate) and zinc N,N'-ethylenebis(dithiocarbamate)	Mancozeb	008018-01-7
		2050	Zinc N,N'-ethylenebis(dithiocarbamate)	Zineb	012122-67-7
		2051	Manganese N,N'-ethylenebis(dithiocarbamate)	Maneb	012427-38-2
		others	Level 1	1010	N,N'-Ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine and N,N'-dixylyl-p-phenylenediamine
1011	2,4,6-Tri-tert-butylphenol			-	000732-26-3
1023	Phosphorus (yellow)			-	007223-14-0
1024	Benzidine			-	000092-87-5
1025	Biphenyl-4-ylamine			-	000092-67-1
1026	Asbestos			-	001332-21-4
1027	4-Nitrobiphenyl			-	000092-93-3
1029	2-Naphthylamine			-	000091-59-8
1032	1-Naphthylamine			-	000134-32-7
1033	3,3'-Dimethylbenzidine			o-tolidine	000119-93-7
1034	3,3'-Dimethoxybenzidine			-	000119-90-4
1074	Benzene			-	000071-43-2
1087	Azo colorants			(See the attached Table-3)	-
1089	Radioactive Substances			-	-
1093	1-(1,1-Dimethylethyl)-3,5-dimethyl-2,4,6-trinitrobenzene			-	000081-15-2
1094	1,5,9-Cyclododecatriene			-	004904-61-4
1095	Cyclododecane			-	000294-62-2
1100	1,3,5-Tris(1,1-dimethylethyl)-benzene	-	001460-02-2		
1101	Decahydro-1-(1-methylethyl)-naphthalene	-	001010-74-8		
1102	3,5-Bis(1,1-dimethylethyl)-[1,1'-biphenyl]-4-ol	-	002668-47-5		

(Table-1)

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Type	Class	No.	Substance Name	Other Name	Example of CAS No.
others	Level 1	1103	Diisopropylnaphthalene	-	024157-79-7
		1104	Triisopropylnaphthalene	-	035860-37-8
		1105	2-(2H-Benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-phenol	-	003846-71-7
		1106	Diethylbiphenyl	-	013049-35-9
		1107	Terphenyl, hydrogenated	-	001087-02-1
		1108	Dibenzyltoluene	-	026898-17-9
		1999	Specific substances regulated by Lows on the Prohibition of Chemical Weapons and the Regulation of Specific Chemicals	(See the attached Table-4)	-
	Level 2	2005	Formaldehyde	-	000050-00-0
		2009	Alkyl phenols (Alkyl ; C5-9)	-	-
		2010	Polyoxyethylen or polyoxypropylen alkyl phenyl ether (Alkyl ; C5-9)	-	-
		2014	Dinitrotoluene	-	025321-14-6
		2052	Acetaldehyde	-	000075-07-0
		2055	1,1-Bis(tert-butyl)-3,3,5-trimethylcyclohexane peroxide	-	006731-36-8
		2056	1-Methyl-4-(1-methylethenyl)-cyclohexene dimer	-	057912-86-4

(Table-2)

Specified Heavy Metals

Type	Class	No.	Substance Name
Heavy Metals	Level 1	1077	Cadmium and its compounds
		1078	Mercury and its compounds
		1075	Chromium(VI) compounds
	Level 2	2054	Lead and its compounds

Attached Table-1 Ozone Depleting Sustances Except HCFCs
CFCs, Halons and HBFCs in Montriol Protocol

No.	Group	Substance Name	Othe Name	Chemical Formula	Example of CAS No.
1017-01	A I	CFC-11	CFC-11	CFCl ₃	000075-69-4
1017-02	A I	CFC-115	CFC-115	C ₂ F ₅ Cl	000076-15-3
1017-03	A I	CFC-12	CFC-12	CF ₂ Cl ₂	000075-71-8
1017-04	A I	CFC-113	CFC-113	C ₂ F ₃ Cl ₃	000076-13-1
1017-05	A I	CFC-114	CFC-114	C ₂ F ₄ Cl ₂	000076-14-2
1019-01	A II	Halon-1211		CF ₂ BrCl	000353-59-3
1019-02	A II	Halon-1301		CF ₃ Br	000075-63-8
1019-03	A II	Halon-2402		C ₂ F ₄ Br ₂	025497-30-7
1018-01	B I	CFC-214	CFC-214	C ₃ F ₄ Cl ₄	002268-46-4
1018-02	B I	CFC-13	CFC-13	CF ₃ Cl	000075-72-9
1018-03	B I	CFC-217	CFC-217	C ₃ F ₇ Cl	000422-86-6
1018-04	B I	CFC-112	CFC-112	C ₂ F ₂ Cl ₄	000076-12-0
1018-05	B I	CFC-215	CFC-215	C ₃ F ₅ Cl ₃	000076-17-5
1018-06	B I	CFC-211	CFC-211	C ₃ FCl ₇	135401-87-5
1018-07	B I	CFC-213	CFC-213	C ₃ F ₃ Cl ₅	134237-31-3
1018-08	B I	CFC-111	CFC-111	C ₂ FCl ₅	000354-56-3
1018-09	B I	CFC-216	CFC-216	C ₃ F ₆ Cl ₂	000661-97-2
1018-10	B I	CFC-212	CFC-212	C ₃ F ₂ Cl ₆	003182-26-1
1014	B II	Tetrachloromethane		CCl ₄	000056-23-5
1020	B III	1,1,1-Trichloroethane		C ₂ H ₃ Cl ₃	000071-55-6
1090	C I	1,1-dichloro-1-fluoroethane	HCFC-141b*	CH ₃ CFCl ₂	001717-00-6
1021-01	C II	Bromotrifluoropropane		C ₃ H ₄ F ₃ Br	
1021-02	C II	Tribromofluoropropane		C ₃ H ₄ FBr ₃	
1021-03	C II	Bromodifluoroethane		C ₂ H ₃ F ₂ Br	
1021-04	C II	Bromodifluoropropane		C ₃ H ₅ F ₂ Br	
1021-05	C II	Bromodifluoromethane	HBFC-22B1	CHF ₂ Br	001511-62-2
1021-06	C II	Bromotetrafluoroethane		C ₂ HF ₄ Br	
1021-07	C II	Tribromotrifluoropropane		C ₃ H ₂ F ₃ Br ₃	
1021-08	C II	Bromotrifluoroethane		C ₂ H ₂ F ₃ Br	
1021-09	C II	Tribromotetrafluoropropane		C ₃ HF ₄ Br ₃	
1021-10	C II	Bromofluoropropane		C ₃ H ₆ FBr	
1021-11	C II	Bromofluoromethane		CH ₂ FBr	000373-52-4
1021-12	C II	Bromohexafluoropropane		C ₃ HF ₆ Br	
1021-13	C II	Bromopentafluoropropane		C ₃ H ₂ F ₅ Br	
1021-14	C II	Hexabromofluoropropane		C ₃ HFBr ₆	
1021-15	C II	Pentabromodifluoropropane		C ₃ HF ₂ Br ₅	
1021-16	C II	Dibromodifluoroethane		C ₂ H ₂ F ₂ Br ₂	
1021-17	C II	Tetrabromodifluoropropane		C ₃ H ₂ F ₂ Br ₄	
1021-18	C II	Dibromotetrafluoropropane		C ₃ H ₂ F ₄ Br ₂	
1021-19	C II	Dibromotrifluoroethane		C ₂ HF ₃ Br ₂	
1021-20	C II	Dibromotrifluoropropane		C ₃ H ₃ F ₃ Br ₂	
1021-21	C II	Dibromofluoroethane		C ₂ H ₃ FBr ₂	
1021-22	C II	Dibromofluoropropane		C ₃ H ₅ FBr ₂	
1021-23	C II	Dibromofluoromethane		CHFBr ₂	001868-53-7
1021-24	C II	Tribromofluoroethane		C ₂ H ₂ FBr ₃	
1021-25	C II	Pentabromofluoropropane		C ₃ H ₂ FBr ₅	
1021-26	C II	Dibromodifluoropropane		C ₃ H ₄ F ₂ Br ₂	
1021-27	C II	Tetrabromotrifluoropropane		C ₃ HF ₃ Br ₄	
1021-28	C II	Tetrabromofluoroethane		C ₂ HFBr ₄	
1021-29	C II	Tetrabromofluoropropane		C ₃ H ₃ FBr ₄	
1021-30	C II	Tribromodifluoroethane		C ₂ HF ₂ Br ₃	
1021-31	C II	Tribromodifluoropropane		C ₃ H ₃ F ₂ Br ₃	
1021-32	C II	Dibromopentafluoropropane		C ₃ HF ₅ Br ₂	
1021-33	C II	Bromofluoroethane		C ₂ H ₄ FBr	
1021-34	C II	Bromotetrafluoropropane		C ₃ H ₃ F ₄ Br	
1084	C III	Chlorobromomethane		CH ₂ BrCl	000074-97-5
1022	E I	Methyl bromide		CH ₃ Br	000074-83-9

Attached Table-2 Dioxins

No.	Substance Name
1073-01	Polychlorinated dibenzofurans ; PCDFs
1073-02	Polychlorinated dibenzo-p-dioxins ; PCDDs
1073-03	Co-planar polychlorinated biphenyls ; co-planar PCBs

Attached Table-3 Specific Azo Colorants

Azo colorants which are possible to generate specific carcinogenic amines belows

Specific Amines

No.	Substance Name	Chemical Formula	Example of CAS No.
1087-01	4-Aminoazobenzene	C ₁₂ H ₁₁ N ₃	000060-09-3
1087-02	o-Anisidine	C ₇ H ₉ NO	000090-04-0
1087-03	2-Naphthylamine	C ₁₀ H ₉ N	000091-59-8
1087-04	3,3'-Dichlorobenzidine	C ₁₂ H ₁₀ Cl ₂ N ₂	000091-94-1
1087-05	Biphenyl-4-ylamine	C ₁₂ H ₁₁ N	000092-67-1
1087-06	Benzidine	C ₁₂ H ₁₂ N ₂	000092-87-5
1087-07	o-Toluidine	C ₇ H ₉ N	000095-53-4
1087-08	4-Chloro-o-toluidine	C ₇ H ₈ ClN	000095-69-2
1087-09	2,4-Toluenediamine	C ₇ H ₁₀ N ₂	000095-80-7
1087-10	o-Aminoazotoluene	C ₁₄ H ₁₅ N ₃	000097-56-3
1087-11	5-Nitro-o-toluidine	C ₇ H ₈ N ₂ O ₂	000099-55-8
1087-12	3,3'-Dichloro-4,4'-diaminodiphenylmethane	C ₁₃ H ₁₂ Cl ₂ N ₂	000101-14-4
1087-13	4,4'-Methylenedianiline	C ₁₃ H ₁₄ N ₂	000101-77-9
1087-14	4,4'-Diaminodiphenylether	C ₁₂ H ₁₂ N ₂ O	000101-80-4
1087-15	p-Chloroaniline	C ₆ H ₆ ClN	000106-47-8
1087-16	o-Dianisidine	C ₁₄ H ₁₆ N ₂ O ₂	000119-90-4
1087-17	3,3'-Dimethylbenzidine	C ₁₄ H ₁₆ N ₂	000119-93-7
1087-18	2-Methoxy-5-methylaniline	C ₈ H ₁₁ NO	000120-71-8
1087-19	2,4,5-Trimethylaniline	C ₉ H ₁₃ N	000137-17-7
1087-20	4,4'-Thiodianiline	C ₁₂ H ₁₂ N ₂ S	000139-65-1
1087-21	4-Methoxy-m-phenylenediamine	C ₇ H ₁₀ N ₂ O	000615-05-4
1087-22	4,4'-Methylenedi-o-toluidine	C ₁₅ H ₁₈ N ₂	000838-88-0

Attached Table-4 Chemicals of Schedule 1 in Chemical Weapons Convention

No.	Type	Substance Name	Example of CAS No.
1999-01	Hazardous Material	O-Alkyl ($\leq C10$, incl. cycloalkyl) alkyl -phosphonofluoridates (Me, Et, n-Pr or i-Pr)-phosphonofluoridates e.g. O-Isopropyl methylphosphonofluoridate; Sarin O-Pinacolyl methylphosphonofluoridate; Soman	000107-44-8 000096-64-0
1999-02		O-Alkyl ($\leq C10$, incl. cycloalkyl) N,N-dialkyl phosphoramidocyanidates e.g. Tabun: O-Ethyl N,N-dimethylphosphoramidocyanidate	000077-81-6
1999-03		O-Alkyl (H or $\leq C10$, incl. cycloalkyl) S-2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salts e.g. O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate; VX	050782-69-9
1999-04		2-Chloroethylchloromethylsulfide	002625-76-5
1999-05		Bis(2-chloroethyl)sulfide; Mustard gas	000505-60-2
1999-06		Bis(2-chloroethylthio)methane	063869-13-6
1999-07		1,2-Bis(2-chloroethylthio)ethane; Sesquimustard	003563-36-8
1999-08		1,3-Bis(2-chloroethylthio)-n-propane	063905-10-2
1999-09		1,4-Bis(2-chloroethylthio)-n-butane	142868-93-7
1999-10		1,5-Bis(2-chloroethylthio)-n-pentane	142868-94-8
1999-11		Bis(2-chloroethylthiomethyl)ether	063918-90-1
1999-12		Bis(2-chloroethylthioethyl)ether; O-Mustard	063918-89-8
1999-13		2-Chlorovinylchloroarsine; Lewisite 1	000541-25-3
1999-14		Bis(2-chlorovinyl)chloroarsine; Lewisite 2	040334-69-8
1999-15		Tris(2-chlorovinyl)arsine; Lewisite 3	040334-70-1
1999-16		Bis(2-chloroethyl)ethylamine; HN1	000538-07-8
1999-17		Bis(2-chloroethyl)methylamine; HN2	000051-75-2
1999-18		Tris(2-chloroethyl)amine; HN3	000555-77-1
1999-19		Saxitoxin	035523-89-8
1999-20		Ricin	009009-86-3
1999-21	Raw Materials	Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides e.g. Methylphosphonyldifluoride; DF	000676-99-3
1999-22		O-Alkyl (H or <C, incl. cycloalkyl) O-2-dialkyl 10 (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts e.g. O-Ethyl O-2-diisopropylaminoethylmethyl phosphonite; QL	057856-11-8
1999-23		O-Isopropyl methylphosphonochloridate; Chlorosarin	001445-76-7
1999-24		O-Pinacolyl methylphosphonochloridate; Chlorosoman	007040-57-5

Attached Table-5 Ozone Depleting Substances ; HCFCs in Montreal Protocol

No.	Group	Substance	Chemical Formula	Example of CAS No.
2001-01	C I	HCFC-121	C ₂ HFCI ₄	134237-32-4
2001-02	C I	HCFC-122	C ₂ HF ₂ Cl ₃	041834-16-6
2001-03	C I	HCFC-123	CHCl ₂ CF ₃	134237-33-5
2001-04	C I	HCFC-123*	C ₂ HF ₃ Cl ₂	000306-83-2
2001-05	C I	HCFC-124	CHFClCF ₃	063938-10-3
2001-06	C I	HCFC-124*	C ₂ HF ₄ Cl	002837-89-0
2001-07	C I	HCFC-131	C ₂ H ₂ FCI ₃	134237-34-6
2001-08	C I	HCFC-132	C ₂ H ₂ F ₂ Cl ₂	025915-78-0
2001-09	C I	HCFC-133	C ₂ H ₂ F ₃ Cl	001330-45-6
2001-10	C I	HCFC-141	C ₂ H ₃ FCI ₂	025167-88-8
2001-12	C I	HCFC-142	CH ₃ CF ₂ Cl	025497-29-4
2001-13	C I	HCFC-142b*	C ₂ H ₃ F ₂ Cl	000075-68-3
2001-14	C I	HCFC-151	C ₂ H ₄ FCI	110587-14-9
2001-15	C I	HCFC-21	CH _F Cl ₂	000075-43-4
2001-16	C I	HCFC-22	CHF ₂ Cl	000075-45-6
2001-17	C I	HCFC-221	C ₃ HFCI ₆	134237-35-7
2001-18	C I	HCFC-222	C ₃ HF ₂ Cl ₅	134237-36-8
2001-19	C I	HCFC-223	C ₃ HF ₃ Cl ₄	134237-37-9
2001-20	C I	HCFC-224	C ₂ HF ₄ Cl ₃	134237-38-0
2001-21	C I	HCFC-225	C ₃ HF ₅ Cl ₂	127564-92-5
2001-22	C I	HCFC-225ca*	CF ₃ CF ₂ CHCl ₂	000422-56-0
2001-23	C I	HCFC-225cb*	CF ₂ ClCF ₂ CHClF	000507-55-1
2001-24	C I	HCFC-226	C ₃ HF ₆ Cl	134308-72-8
2001-25	C I	HCFC-231	C ₃ H ₂ FCI ₅	134190-48-0
2001-26	C I	HCFC-232	C ₃ H ₂ F ₂ Cl ₄	134237-39-1
2001-27	C I	HCFC-233	C ₃ H ₂ F ₃ Cl ₃	134237-40-4
2001-28	C I	HCFC-234	C ₃ H ₂ F ₄ Cl ₂	127564-83-4
2001-29	C I	HCFC-235	C ₃ H ₂ F ₅ Cl	134237-41-5
2001-30	C I	HCFC-241	C ₃ H ₃ FCI ₄	134190-49-1
2001-31	C I	HCFC-242	C ₃ H ₃ F ₂ Cl ₃	134237-42-6
2001-32	C I	HCFC-243	C ₃ H ₃ F ₃ Cl ₂	134237-43-7
2001-33	C I	HCFC-244	C ₃ H ₃ F ₄ Cl	134190-50-4
2001-34	C I	HCFC-251	C ₃ H ₄ FCI ₃	134190-51-5
2001-35	C I	HCFC-252	C ₃ H ₄ F ₂ Cl ₂	134190-52-6
2001-36	C I	HCFC-253	C ₃ H ₄ F ₃ Cl	134237-44-8
2001-37	C I	HCFC-261	C ₃ H ₅ FCI ₂	134237-45-9
2001-38	C I	HCFC-262	C ₃ H ₅ F ₂ Cl	134190-53-7
2001-39	C I	HCFC-271	C ₃ H ₆ FCI	134190-54-8
2001-40	C I	HCFC-31	CH ₂ FCI	000593-70-4

* described as a high potential name which is available