

List of Environmental Impact Substances

Responsible Care Headquarters
Sanyo Chemical Industries, Ltd.

(Ver.2, 2014)

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 corporate 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-dichloroethane, dichloromethane, 1,2-dichloropropane, formaldehyde alkylphenols and their alkylene oxide 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

【 Level 1 : Prohibited Substances 】

No	Substance Name	Example of CAS No.
V21-001	Polychlorinated biphenyls; PCBs	001336-36-3
V21-002	Polychlorinated Naphthalenes (with more than 3 chlorine atoms)	-
V21-003	Hexachlorobenzene	000118-74-1
V21-004	Aldrin	000309-00-2
V21-005	Dieldrin	000060-57-1
V21-006	Endrin	000072-20-8
V21-007	DDT	000050-29-3
V21-008	Chlordane	012789-03-6
V21-009	Bis(tributyltin)oxide	000056-35-9
V21-010	N,N'-Ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine and N,N'-dixylyl-p-phenylenediamine	015017-02-2
V21-011	2,4,6-Tri-tert-butylphenol	000732-26-3
V21-012	Dodecachloropentacyclo[5.3.0.0(2.6).0(3.9).0(4.8)]decane (synonym:mirex)	002385-85-5
V21-013	Polychloro-2,2-dimethyl-3-methylidenbicyclo[2.2.1]heptane (synonym:toxaphene)	008001-35-2
V21-014	2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol; kelthane; dicofol	000115-32-2
V21-015	Hexachlorobuta-1,3-diene	000087-68-3
V21-016	2-(2H-Benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-phenol	003846-71-7
V21-017	1,2,3,4,5,6-Hexachlorocyclohexane	000608-73-1
V21-018	Chlordecone, Kepone	000143-50-0
V21-019	Perfluorooctane-1-sulfonyl fluoride	000307-35-7
V21-020	Pentachlorobenzene	000608-93-5
V21-021	Perfluoro(octane-1-sulfonic acid) and its salts	001763-23-1
V21-022	Trichloroethylene	000079-01-6
V21-023	Tetrachloroethylene	000127-18-4
V21-024	Tetrachloromethane	000056-23-5
V21-025	Triphenyl Tins	-
V21-026	Tributyl Tins	-
V21-027	Ozone Depleting Substance (See Attached Table 1)	-
V21-034	Phosphorus (yellow)	-
V21-035	Benzidine	000092-87-5
V21-036	Biphenyl-4-ylamine	000092-67-1
V21-037	Asbestos	001332-21-4
V21-038	4-Nitrobiphenyl	000092-93-3
V21-039	Oxybis[chloromethane]	000542-88-1
V21-040	2-Naphthylamine	000091-59-8
V21-042	Dichlorobenzidine	-
V21-043	1-Naphthylamine	-
V21-044	3,3'-Dimethylbenzidine; o-tolidine	-
V21-045	3,3'-Dimethoxybenzidine	-
V21-046	Beryllium and its compounds	-

(Table-1)

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【 Level 1 : Prohibited Substances 】

No	Substance Name	Example of CAS No.
V21-047	Benzylidene trichloride	000098-07-7
V21-049	Chemicals of Schedule 1 in Chemical Weapons Convention (See Attached Table 2)	-
V21-074	Schradan	000152-16-9
V21-075	Tetraalkyl lead	000075-74-1
V21-076	Parathion	000056-38-2
V21-077	Demeton-methyl	008022-00-2
V21-078	Phosphamidon	013171-21-6
V21-079	Methyl-parathion	000298-00-0
V21-080	TEPP	000107-49-3
V21-081	Fluoroacetic acid	000144-49-0
V21-082	2-Fluoroacetamide	000640-19-7
V21-083	Aluminium phosphide	-
V21-084	Dioxins (See Attached Table 3)	-
V21-085	Benzene	000071-43-2
V21-086	Chromium(VI) compounds	-
V21-087	Arsenic and its inorganic compounds	-
V21-088	Cadmium and its compounds	-
V21-089	Mercury and its compounds	-
V21-090	Polybrominated Biphenyls (PBBs)	-
V21-091	Polybrominated Diphenyl ethers	-
V21-092	Azo colorants (See Attached Table 4)	-
V21-093	Short Chain Chlorinated Paraffins	-
V21-094	Polychlorinated terphenyls (PCT)	061788-33-8
V21-095	2,4,5-T and its salts and esters	000093-76-5
V21-096	Binapacryl	000485-31-4
V21-097	Captafol	002425-06-1
V21-098	Chlordimeform	006164-98-3
V21-099	Chlorobenzilate	000510-15-6
V21-100	Dinitro-ortho-cresol (DNOC) and its salts (such as ammonium salt, potassium salt and sodium salt)	000534-52-1
V21-101	Dinoseb and its salts and esters	000088-85-7
V21-102	1,2-dibromoethane (EDB)	000106-93-4
V21-103	Monocrotophos	006923-22-4
V21-104	Methamidophos (Soluble liquid formulations of the substance that exceed 600g active ingredient/l)	010265-92-6
V21-105	Tris (2,3-dibromopropyl) phosphate	000126-72-7
V21-106	1-(1,1-Dimethylethyl)-3,5-dimethyl-2,4,6-trinitrobenzene	000081-15-2
V21-107	1,5,9-Cyclododecatriene	004904-61-4
V21-108	Cyclododecane	000294-62-2
V21-109	1,2,5,6,9,10-Hexabromocyclododecane	003194-55-6

(Table-1)

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【 Level 1 : Prohibited Substances 】

No	Substance Name	Example of CAS No.
V21-110	Tetraphenylstannane	000595-90-4
V21-111	1,3,5-Tribromo-2-(2,3-dibromo-2-methylpropoxy)-benzene	036065-30-2
V21-112	Phosphonothioic acid, phenyl-, O-(2,4-dichlorophenyl) O-ethyl ester	003792-59-4
V21-113	1,3,5-Tris(1,1-dimethylethyl)-benzene	001460-02-2
V21-114	Decahydro-1-(1-methylethyl)-naphthalene	001010-74-8
V21-115	3,5-Bis(1,1-dimethylethyl)-[1,1'-biphenyl]-4-ol	002668-47-5
V21-116	Diisopropyl naphthalene	024157-79-7
V21-117	Triisopropyl naphthalene	035860-37-8
V21-118	Diethylbiphenyl	013049-35-9
V21-119	Terphenyl, hydrogenated	001087-02-1
V21-120	Dibenzyltoluene	026898-17-9
V21-121	1,1'-Biphenyl, triethyl-	042343-17-9
V21-122	N,N-Dicyclohexan-1-yl(1,3-benzothiazol-2-ylsulfanyl)amine	004979-32-2
V21-123	Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)-6-(1-methylpropyl)-	036437-37-3
V21-124	2,4-Di-tert-butyl-6-[(2-nitrophenyl)diazenyl]phenol	052184-14-2
V21-125	Perfluoro(1,2-dimethylcyclohexane)	000306-98-9
V21-126	2,2',6,6'-Tetra-tert-butyl-4,4'-methylenediphenol	000118-82-1
V21-127	Perfluorododecanoic acid	000307-55-1
V21-128	Perfluorotridecanoic acid	072629-94-8
V21-129	Perfluorotetradecanoic acid	000376-06-7
V21-130	Perfluoropentadecanoic acid	141074-63-7
V21-131	Perfluorohexadecanoic acid	067905-19-5
V21-132	Perfluoroheptane	000335-57-9
V21-133	Perfluorooctane	000307-34-6
V21-134	2,2,3,3,4,4,5-Heptafluoro-5-(perfluorobutyl)oxolane	000335-36-4
V21-135	2,2,3,3,4,4,5-Heptafluoro-4-(perfluorobutyl)oxolane	000646-85-5
V21-136	4-sec-Butyl-2,6-di-tert-butylphenol	017540-75-9
V21-137	Dibutyltin hydrogen borate	075113-37-0
V21-138	Radioactive Substances	-
V21-139	1,2,3-Trichloro-benzene	000087-61-6
V21-140	1,2,4-Trichlorobenzene	000120-82-1
V21-141	Pentadecafluorooctanoic acid	000335-67-1
V21-142	1,4-Bis(isopropylamino)-9,10-anthraquinone	014233-37-5
V21-143	1,1-Bis(tert-butyl)-3,3,5-trimethylcyclohexane peroxide	006731-36-8
V21-144	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, dimer	057912-86-4
V21-145	Dimethyl fumarate	000624-49-7
V21-146	Alachlor	015972-60-8
V21-147	1,9,10,11,12,12-Hexachloro-5-oxo-4,6-dioxo-5lambda(4)-thiatricyclo[7.2.1.0(2,8)]dodec-10-ene ; Endosulfan ; Benzoepin	000115-29-7
V21-148	7,7-Dimethyl-4-oxa-8-thia-2,5-diazanon-5-en-3-one	000116-06-3

(Table-1)

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【 Level 2: Limited Use Substances 】

No	Substance Name	Example of CAS No.
V22-003	2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-phenol	003864-99-1
V22-004	Lead and its compounds	
V22-005	1,2-Dichloroethane	000107-06-2
V22-006	Dichloromethane; methylene dichloride	000075-09-2
V22-007	1,1-Dichloroethylene; vinylidene dichloride	000075-35-4
V22-008	cis-1,2-Dichloroethylene	000156-59-2
V22-009	1,1,2-Trichloroethane	000079-00-5
V22-010	Selenium and its compounds	-
V22-011	Inorganic cyanide compounds (except complex salts and cyanates)	-
V22-012	Formaldehyde	000050-00-0
V22-013	Chloroethylene; vinyl chloride	000075-01-4
V22-014	Acetaldehyde	000075-07-0
V22-015	Chloroform	000067-66-3
V22-016	1,2-Dichloropropane	000078-87-5
V22-017	Alkyl phenols (Alkyl;C5-9)	-
V22-018	Polyoxyethylen and/or polyoxypropylen alkyl phenyl ether (Alkyl;C5-9)	-
V22-019	Nichel compounds	-
V22-020	Acrylaldehyde	000107-02-8
V22-021	Vanadium compounds	-
V22-022	1,2,3,6-tetrahydromethylphthalic anhydride	026590-20-5
V22-023	Nichel	007440-02-0
V22-024	Manganese and its compounds	-
V22-025	Dinitrotoluene	025321-14-6
V22-026	Antimony and its compounds	-
V22-027	Perchlorocyclopenta-1,3-diene	000077-47-4
V22-028	Pentachlorophenol	000087-86-5
V22-029	Thallium and its water-soluble compounds	-
V22-030	Chromium and chromium(III) compounds	-
V22-031	p-Nitrochlorobenzene	000100-00-5
V22-032	But-2-enal	004170-30-3
V22-033	Benzene, 2-methyl-1,3,5-trinitro-	000118-96-7
V22-034	2-methyl-4,6-dinitro-phenol	000534-52-1
V22-035	2,2'-Dichloro-4,4'-methylenedianiline	000101-14-4
V22-036	1,1-Dimethylhydrazine	000057-14-7
V22-037	Nitrobenzene	000098-95-3
V22-038	Tribromomethane; bromoform	000075-25-2
V22-039	Silver and its water-soluble compounds	-
V22-040	1-Methyl-2-pyrrolidone	000872-50-4
V22-041	1,4-Dioxane	000123-91-1

(Table-2)

Specified Heavy Metals

No	Substance Name
V21-088	Cadmium and its compounds
V21-089	Mercury and its compounds
V21-086	Chromium(VI) compounds
V22-004	Lead and its compounds

Attached Table 1 Ozone Depleting Sustances

No	Group	Substance Name	Othe Name	Chemical Fomula	Example of CAS No.
V21-027-01	A I	CFC-11	CFC-11	CFCl ₃	000075-69-4
V21-027-02		CFC-115	CFC-115	C ₂ F ₅ Cl	000076-15-3
V21-027-03		CFC-12	CFC-12	CF ₂ Cl ₂	000075-71-8
V21-027-04		CFC-113	CFC-113	C ₂ F ₃ Cl ₃	000076-13-1
V21-027-05		CFC-114	CFC-114	C ₂ F ₄ Cl ₂	000076-14-2
V21-027-06	A II	Halon-1211	ハロゲン-1211	CF ₂ BrCl	000353-59-3
V21-027-07		Halon-1301	ハロゲン-1301	CF ₃ Br	000075-63-8
V21-027-08		Halon-2402	ハロゲン-2402	C ₂ F ₄ Br ₂	025497-30-7
V21-027-09	B I	CFC-214	CFC-214	C ₃ F ₄ Cl ₄	002268-46-4
V21-027-10		CFC-13	CFC-13	CF ₃ Cl	000075-72-9
V21-027-11		CFC-217	CFC-217	C ₃ F ₇ Cl	000422-86-6
V21-027-12		CFC-112	CFC-112	C ₂ F ₂ Cl ₄	000076-12-0
V21-027-13		CFC-215	CFC-215	C ₃ F ₅ Cl ₃	000076-17-5
V21-027-14		CFC-211	CFC-211	C ₃ FCI ₇	135401-87-5
V21-027-15		CFC-213	CFC-213	C ₃ F ₃ Cl ₅	134237-31-3
V21-027-16		CFC-111	CFC-111	C ₂ FCI ₅	000354-56-3
V21-027-17		CFC-216	CFC-216	C ₃ F ₆ Cl ₂	000661-97-2
V21-027-18		CFC-212	CFC-212	C ₃ F ₂ Cl ₆	003182-26-1
V21-027-19	B II	Tetrachloromethane		CCl ₄	000056-23-5
V21-027-20	B III	1,1,1-Trichloroethane		C ₂ H ₃ Cl ₃	000071-55-6
V21-027-21	C I	HCFC-121		C ₂ HFCl ₄	134237-32-4
V21-027-22		HCFC-122		C ₂ HF ₂ Cl ₃	041834-16-6
V21-027-23		HCFC-123		CHCl ₂ CF ₃	134237-33-5
V21-027-24		HCFC-123*		C ₂ HF ₃ Cl ₂	000306-83-2
V21-027-25		HCFC-124		CHFClCF ₃	063938-10-3
V21-027-26		HCFC-124*		C ₂ HF ₄ Cl	002837-89-0
V21-027-27		HCFC-131		C ₂ H ₂ FCI ₃	134237-34-6
V21-027-28		HCFC-132		C ₂ H ₂ F ₂ Cl ₂	025915-78-0
V21-027-29		HCFC-133		C ₂ H ₂ F ₃ Cl	001330-45-6
V21-027-30		1,1-dichloro-1-fluoroethane	HCFC-141b*	CH3CFCI2	001717-00-6
V21-027-31		HCFC-141		C ₂ H ₃ FCI ₂	025167-88-8
V21-027-32		HCFC-142		CH ₃ CF ₂ Cl	025497-29-4
V21-027-33		HCFC-142b*		C ₂ H ₃ F ₂ Cl	000075-68-3
V21-027-34		HCFC-151		C ₂ H ₄ FCI	110587-14-9
V21-027-35		HCFC-21		CH _F Cl ₂	000075-43-4
V21-027-36		HCFC-22		CHF ₂ Cl	000075-45-6
V21-027-37		HCFC-221		C ₃ HFCl ₆	134237-35-7
V21-027-38		HCFC-222		C ₃ HF ₂ Cl ₅	134237-36-8
V21-027-39		HCFC-223		C ₃ HF ₃ Cl ₄	134237-37-9
V21-027-40		HCFC-224		C ₂ HF ₄ Cl ₃	134237-38-0
V21-027-41	HCFC-225		C ₃ HF ₅ Cl ₂	127564-92-5	
V21-027-42	HCFC-225ca*		CF ₃ CF ₂ CHCl ₂	000422-56-0	
V21-027-43	HCFC-225cb*		CF ₂ CICF ₂ CHCIF	000507-55-1	
V21-027-44	HCFC-226		C ₃ HF ₆ Cl	134308-72-8	
V21-027-45	HCFC-231		C ₃ H ₂ FCI ₅	134190-48-0	
V21-027-46	HCFC-232		C ₃ H ₂ F ₂ Cl ₄	134237-39-1	
V21-027-47	HCFC-233		C ₃ H ₂ F ₃ Cl ₃	134237-40-4	

* described as a high potential name which is available

Attached Table 1 Ozone Depleting Sustances

No	Group	Substance Name	Othe Name	Chemical Fomula	Example of CAS No.
V21-027-48	C I	HCFC-234		$C_3H_2F_4Cl_2$	127564-83-4
V21-027-49		HCFC-235		$C_3H_2F_5Cl$	134237-41-5
V21-027-50		HCFC-241		$C_3H_3FCl_4$	134190-49-1
V21-027-51		HCFC-242		$C_3H_3F_2Cl_3$	134237-42-6
V21-027-52		HCFC-243		$C_3H_3F_3Cl_2$	134237-43-7
V21-027-53		HCFC-244		$C_3H_3F_4Cl$	134190-50-4
V21-027-54		HCFC-251		$C_3H_4FCl_3$	134190-51-5
V21-027-55		HCFC-252		$C_3H_4F_2Cl_2$	134190-52-6
V21-027-56		HCFC-253		$C_3H_4F_3Cl$	134237-44-8
V21-027-57		HCFC-261		$C_3H_5FCl_2$	134237-45-9
V21-027-58		HCFC-262		$C_3H_5F_2Cl$	134190-53-7
V21-027-59		HCFC-271		C_3H_6FCl	134190-54-8
V21-027-60		HCFC-31		CH_2FCl	000593-70-4
V21-027-61		C II	Bromotrifluoropropane		$C_3H_4F_3Br$
V21-027-62	Tribromofluoropropane			$C_3H_4FBr_3$	
V21-027-63	Bromodifluoroethane			$C_2H_3F_2Br$	
V21-027-64	Bromodifluoropropane			$C_3H_5F_2Br$	
V21-027-65	Bromodifluoromethane		HBFC-22B1	CHF_2Br	001511-62-2
V21-027-66	Bromotetrafluoroethane			C_2HF_4Br	
V21-027-67	Tribromotrifluoropropane			$C_3H_2F_3Br_3$	
V21-027-68	Bromotrifluoroethane			$C_2H_2F_3Br$	
V21-027-69	Tribromotetrafluoropropane			$C_3HF_4Br_3$	
V21-027-70	Bromofluoropropane			C_3H_6FBr	
V21-027-71	Bromofluoromethane			CH_2FBr	000373-52-4
V21-027-72	Bromohexafluoropropane			C_3HF_6Br	
V21-027-73	Bromopentafluoropropane			$C_3H_2F_5Br$	
V21-027-74	Hexabromofluoropropane			C_3HFBr_6	
V21-027-75	Pentabromodifluoropropane			$C_3HF_2Br_5$	
V21-027-76	Diburomodifluoroethane			$C_2H_2F_2Br_2$	
V21-027-77	Tetrabromodifluoropropane			$C_3H_2F_2Br_4$	
V21-027-78	Dibromotetrafluoropropane			$C_3H_2F_4Br_2$	
V21-027-79	Dibromotrifluoroethane			$C_2HF_3Br_2$	
V21-027-80	Dibromotrifluoropropane			$C_3H_3F_3Br_2$	
V21-027-81	Dibromofluoroethane			$C_2H_3FBr_2$	
V21-027-82	Dibromofluoropropane			$C_3H_5FBr_2$	
V21-027-83	Dibromofluoromethane			$CHFBr_2$	001868-53-7
V21-027-84	Tribromofluoroethane			$C_2H_2FBr_3$	
V21-027-85	Pentabromofluoropropane			$C_3H_2FBr_5$	
V21-027-86	Dibromodifluoropropane			$C_3H_4F_2Br_2$	
V21-027-87	Tetrabromotrifluoropropane			$C_3HF_3Br_4$	
V21-027-88	Tetrabromofluoroethane			C_2HFBr_4	
V21-027-89	Tetrabromofluoropropane			$C_3H_3FBr_4$	
V21-027-90	Tribromodifluoroethane			$C_2HF_2Br_3$	
V21-027-91	Tribromodifluoropropane			$C_3H_3F_2Br_3$	
V21-027-92	Dibromopentafluoropropane			$C_3HF_5Br_2$	
V21-027-93	Bromofluoroethane			C_2H_4FBr	
V21-027-94	Bromotetrafluoropropane			$C_3H_3F_4Br$	
V21-027-95	C III	Chlorobromomethane		CH_2BrCl	000074-97-5
V21-027-96	E I	Methyl bromide		CH_3Br	000074-83-9

Attached Table 2 Chemicals of Schedule 1 in Chemical Weapons Conventio

No.	Type	Substance Name	Example of CAS №
V21-049-01	Hazardous Materials	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
V21-049-02		O-Alkyl (\leq C10 , incl. cycloalkyl) N,N-dialkyl phosphoramidocyanidates e.g. Tabun: O-Ethyl N,N-dimethylphosphoramidocyanidate	000077-81-6
V21-049-03		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
V21-049-03		2-Chloroethylchloromethylsulfide	002625-76-5
V21-049-04		Bis(2-chloroethyl)sulfide; Mustard gas	000505-60-2
V21-049-05		Bis(2-chloroethylthio)methane	063869-13-6
V21-049-06		1,2-Bis(2-chloroethylthio)ethane; Sesquimustard	003563-36-8
V21-049-07		1,3-Bis(2-chloroethylthio)-n-propane	063905-10-2
V21-049-08		1,4-Bis(2-chloroethylthio)-n-butane	142868-93-7
V21-049-09		1,5-Bis(2-chloroethylthio)-n-pentane	142868-94-8
V21-049-10		Bis(2-chloroethylthiomethyl)ether	063918-90-1
V21-049-11		Bis(2-chloroethylthioethyl)ether; O-Mustard	063918-89-8
V21-049-12		2-Chlorovinylchloroarsine; Lewisite 1	000541-25-3
V21-049-13		Bis(2-chlorovinyl)chloroarsine; Lewisite 2	040334-69-8
V21-049-14		Tris(2-chlorovinyl)arsine; Lewisite 3	040334-70-1
V21-049-15		Bis(2-chloroethyl)ethylamine; HN1	000538-07-8
V21-049-16		Bis(2-chloroethyl)methylamine; HN2	000051-75-2
V21-049-17		Tris(2-chloroethyl)amine; HN3	000555-77-1
V21-049-18		Saxitoxin	035523-89-8
V21-049-19	Ricin	009009-86-3	
V21-049-21	Raw Materials	Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides e.g. Methylphosphonyldifluoride; DF	000676-99-3
V21-049-22		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
V21-049-23		O-Isopropyl methylphosphonochloridate; Chlorosarin	001445-76-7
V21-049-24		O-Pinacolyl methylphosphonochloridate; Chlorosoman	007040-57-5

Attached Table 3 Dioxins

No.	Substance Name
V21-084-01	Polychlorinated dibenzofurans ; PCDFs
V21-084-02	Polychlorinated dibenzo-p-dioxins ; PCDDs
V21-084-03	Co-planar polychlorinated biphenyls ; co-planar PCBs

Attached Table 4 Specific Azo Colorants

Azo colorants which are possible to generate specific carcinogenic amines listed below

Specific Amines

No.	Substance Name	Chemical Formula	Example of CAS №
V21-092-01	4-Aminoazobenzene	C ₁₂ H ₁₁ N ₃	00060-09-3
V21-092-02	o-Anisidine	C ₇ H ₉ NO	00090-04-0
V21-092-03	2-Naphthylamine	C ₁₀ H ₉ N	00091-59-8
V21-092-04	3,3'-Dichlorobenzidine	C ₁₂ H ₁₀ Cl ₂ N ₂	00091-94-1
V21-092-05	Biphenyl-4-ylamine	C ₁₂ H ₁₁ N	00092-67-1
V21-092-06	Benzidine	C ₁₂ H ₁₂ N ₂	00092-87-5
V21-092-07	o-Toluidine	C ₇ H ₉ N	00095-53-4
V21-092-08	4-Chloro-o-toluidine	C ₇ H ₈ ClN	00095-69-2
V21-092-09	2,4-Toluenediamine	C ₇ H ₁₀ N ₂	00095-80-7
V21-092-10	o-Aminoazotoluene	C ₁₄ H ₁₅ N ₃	00097-56-3
V21-092-11	5-Nitro-o-toluidine	C ₇ H ₈ N ₂ O ₂	00099-55-8
V21-092-12	3,3'-Dichloro-4,4'-diaminodiphenylmethane	C ₁₃ H ₁₂ Cl ₂ N ₂	00101-14-4
V21-092-13	4,4'-Methylenedianiline	C ₁₃ H ₁₄ N ₂	00101-77-9
V21-092-14	4,4'-Diaminodiphenylether	C ₁₂ H ₁₂ N ₂ O	00101-80-4
V21-092-15	p-Chloroaniline	C ₆ H ₆ ClN	00106-47-8
V21-092-16	o-Dianisidine	C ₁₄ H ₁₆ N ₂ O ₂	00119-90-4
V21-092-17	3,3'-Dimethylbenzidine	C ₁₄ H ₁₆ N ₂	00119-93-7
V21-092-18	2-Methoxy-5-methylaniline	C ₈ H ₁₁ NO	00120-71-8
V21-092-19	2,4,5-Trimethylaniline	C ₉ H ₁₃ N	00137-17-7
V21-092-20	4,4'-Thiodianiline	C ₁₂ H ₁₂ N ₂ S	00139-65-1
V21-092-21	4-Methoxy-m-phenylenediamine	C ₇ H ₁₀ N ₂ O	00615-05-4
V21-092-22	4,4'-Methylenedi-o-toluidine	C ₁₅ H ₁₈ N ₂	00838-88-0