

**《Management Substances List (Report use substance )》**

B01	REACH Regulation SVHC (Substances of Very High Concern)
B02	Polyvinyl chloride and its copolymers
B03	Antimony and its compounds
B04	Bismuth and its compounds
B05	Cobalt and its compounds
B06	Selenium and its compounds
B07	Brominated flame retardants (exclude PBBs, PBDEs and HBCDD)
B08	Other Brominated compounds
B09	Chlorine-based flame retardants
B10	Other Chlorinated compounds
B11	Phthalate esters (exclude Prohibited substances)
B12	Polycyclic aromatic hydrocarbon (PAH 18)
B13	Perchlorate
B14	Chromium compound (exclude hexavalent chromium compounds)
B15	Barium
B16	Bisphenol A
B17	Nickel compounds
B18	Red Phosphorus
B19	Phosphorus-based flame retardants (exclude prohibited substances)
B20	Long-chain perfluoroalkyl carboxylate (LCPFACs)
B21	Perfluorohexanoic acid (PFHxA) and its salt and PFHxA related substances
B22	Perfluoroalkyl and polyfluoroalkyl substances (PFAS)

※Please see 「managed substances」 for details.

## Management Substances

№	Substances name	Low	CAS No.
<b>REACH Regulation SVHC (Substances of Very High Concern)</b>			
B01	Substances listed in (Candidate list) REACH SVHC However, if you are listed as a banned substance in the Green Procurement Standards Panac that conditions Satisfying Candidate list Reference URL <a href="http://echa.europa.eu/web/guest/candidate-list-table">http://echa.europa.eu/web/guest/candidate-list-table</a>	REACH Regulation SVHC (Substances of Very High Concern)	-
<b>Polyvinyl chloride and its copolymers</b>			
B02	Polyvinyl chloride	JS709	9002-86-2
	Other Polyvinyl chloride		-
	Polyvinyl chloride Copolymer		-
<b>Antimony and its compounds</b>			
B03	Antimony	Industrial Safety and Health Act (Notification target) European Toy Safety Directive (88/378/EEC)	7440-36-0
	Diantimony trioxide		1309-64-4
	Diantimony pentoxide		1314-60-9
	Antimony trichloride		10025-91-9
	Sodium antimonate		15432-85-6
	Other antimony Compounds		-
<b>Bismuth and its compounds</b>			
B04	Bismuth	Industrial Safety and Health Act (Dangerous materials/flammable materials)	7440-69-9
	Bismuth oxide (Bi <sub>2</sub> O <sub>3</sub> )		1304-76-3
	Bismuth trinitrate		10361-44-1
	Other bismuth Compounds		-
<b>Cobalt and its compounds</b>			
B05	Cobalt chloride	Industrial Safety and Health Act (Notification target)	7646-79-9
	Other Cobalt Compounds		-
<b>Selenium and its compounds</b>			
B06	Selenium	European Toy Safety Directive (88/378/EEC)	7782-49-2
	Dihydrogen selenide		7783-07-5
	Disodium selenide		1313-85-5
	Selenium dioxide		7446-08-4
	Sodium selenate		10112-94-4
	Dimethyl selenide		593-79-3
	Selenium oxide		12640-89-0
	Other selenium compounds		-
<b>Brominated organic compounds (exclude PBBs, PBDEs and HBCDD)</b>			
	Brominated flame retardant which comes under notation of ISO1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]		-
	Brominated flame retardant which comes under notation of ISO1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]		-
	Brominated flame retardant which comes under notation of ISO1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]		-

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B07	Brominated flame retardant which comes under notation of ISO1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]	IEC 61249-2-21 and IPC-4101	-
	Brominated flame retardant which comes under notation of ISO1043-4 code number FR(42) [Brominated organic phosphorus compounds]		-
	Phenol, 2,4(or 2,6)-dibromo-, homopolymer		69882-11-7
	1,2,4,5-tetrabromo-3,6-bis(pentabromophenoxy)benzene		58965-66-5
	Benzene, 1,1'-[1,2-ethanediylbis(oxy)]bis[2,4,6-tribromo-		37853-59-1
	Tetrabromobisphenol A		79-94-7
	Phenol, 4,4'-(1-methylethylidene)bis-, tetrabromo deriv.		30496-13-0
	Phenol, 4,4'-(1-methylethylidene)bis[2,6-dibromo-, polymer with 2-(chloromethyl)oxirane		40039-93-8
	Brominated phenoxy resin		70682-74-5
	Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol]		28906-13-0
	Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol] and phenol		94334-64-2
	Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol], bis(2,4,6-tribromophenyl) ester		71342-77-3
	Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol] and 4,4'-(1-methylethylidene)bis[phenol]		32844-27-2
	Brominated epoxy resin end-capped with tribromophenol		139638-58-7
	Brominated epoxy resin end-capped with tribromophenol		135229-48-0
	2,2-Bis[3,5-dibromo-4-(2,3-dibromopropoxy)phenyl]propane		21850-44-2
	2,2'-[(1-Methylethylidene)bis[(2,6-dibromo-4,1-phenylene)oxy]]bis[ethanol]		4162-45-2
	1,1'-isopropylidenebis[4-(allyloxy)-3,5-dibromobenzene]		25327-89-3
	4,4'-sulphonylbis[2,6-dibromophenol]		39635-79-5
	Bis[3,5-dibromo-4-(2,3-dibromopropoxy)phenyl] sulphone		42757-55-1
	2,4,6-Tribromophenol		118-79-6
	pentabromophenol		608-71-9
	2-(allyloxy)-1,3,5-tribromobenzene		3278-89-5
	(allyloxy)tribromobenzene		26762-91-4
	Bis(methyl)tetrabromo-phthalate		55481-60-2
	Phthalic acid, 3,4,5,6-tetrabromo-, bis(2-ethylhexyl) ester		26040-51-7
	2-(2-hydroxyethoxy)ethyl 2-hydroxypropyl 3,4,5,6-tetrabromophthalate		20566-35-2
	TBPA, glycol-and propylene-oxide esters		75790-69-1
	1H-Isoindole-1,3(2H)-dione, 2,2'-(1,2-ethanediyl)bis[4,5,6,7-tetrabromo-		32588-76-4
	N,N'-(ethylene)bis[4,5-dibromohexahydro-3,6-methanophthalimide]		52907-07-0
	2,3-dibromo-2-butene-1,4-diol		3234-02-4
	2,2-bis(bromomethyl)propane-1,3-diol		3296-90-0
	2,3-Dibromopropan-1-ol		96-13-9
3-Bromo-2,2-bis(bromomethyl)propan-1-ol	36483-57-5		
Poly(tribromostyrene)	57137-10-7		
Tribromostyrene	61368-34-1		
Benzene, ethenyl-, ar-bromo derivs., polymers with propene, graft	171091-06-8		
Dibromostyrene	31780-26-4		
Alkanes, C10-18, bromo chloro	68955-41-9		

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№	Substances name	Low	CAS No.
	Bromo-/Chloro-alpha-olefin		82600-56-4
	Bromoethylene		593-60-2
	1,3,5-tris(2,3-dibromopropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione		52434-90-9
	Tris(dibromophenyl) phosphate		49690-63-3
	Tris[3-bromo-2,2-bis(bromomethyl)propan-1-yl] phosphate		19186-97-1
	Phosphoric acid, mixed 3-bromo-2,2-dimethylpropyl and 2-bromoethyl and 2-chloroethyl esters		125997-20-8
	2,3,4,5,6-pentabromotoluene		87-83-2
	2,3,4,5,6,alpha-hexabromotoluene		38521-51-6
	1,3-Butadiene, homopolymer, brominated		68441-46-3
	(pentabromophenyl)methyl acrylate		59447-55-1
	2-Propenoic acid, (2,3,4,5,6-pentabromophenyl)methyl ester, homopolymer		59447-57-3
	1,1'-(Ethane-1,2-diyl)bis[2,3,4,5,6-pentabromobenzene]		84852-53-9
	1H-Pyrrole-2,5-dione, 1-(2,4,6-tribromophenyl)-		59789-51-4
	Tetrabromocyclooctane		31454-48-5
	1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane		3322-93-8
	Phthalic anhydride, tetrabromo-		632-79-1
	1H-Indene, 2,3-dihydro-1,1,3-trimethyl-3-phenyl-, octabromo deri		155613-93-7
	Other brominated organic compounds		-
<b>Chlorine-based flame retardants</b>			
B09	Tetrakis(2-chloroethyl)dichloroisopentyldiphosphate	JS709	38051-10-4
	Tris(1-chloro-2-propyl)phosphate		13674-84-5
	Tris(2,3-dichloro-1-propyl)phosphat		66108-37-0
	Other Chlorine-based flame retardants		-
<b>Polycyclic aromatic hydrocarbon (PAH 18)</b>			
B12	Naphthene	German GS attestation system	91-20-3
	Acenaphthene		83-32-9
	Acenaphthylene		208-96-8
	Fluorene		86-73-7
	Phenanthrene		85-01-8
	Anthracene		120-12-7
	Fluoranthene		206-44-0
	Pyrene		129-00-0
	Benzo[a]phenanthrene		218-01-9
	Benz[a]anthracene		56-55-3
	Benzo[b]fluoranthene		205-99-2
	Benzo[k]fluoranthene		207-08-9
	Benzo[j]fluoranthene		205-82-3
	Indeno[1,2,3-cd]pyrene		193-39-5
	Dibenz[a,h]anthracene		53-70-3
Benzo[ghi]perylene	191-24-2		

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No	Substances name	Low	CAS No.
	Benzo [a] pyrene		50-32-8
	Benzo[e]pyrene		192-97-2
<b>Perchlorate</b>			
B13	Lithium perchlorate	California, U.S. Perchlorate antipollution bill 2003	7791-03-9
	Other perchlorate		-
<b>Chromium compound (exclude hexavalent chromium compounds)</b>			
B14	Trivalent chromium	European Toy Safety Directive (88/378/EEC)	-
	Other chromium compounds		-
<b>Barium</b>			
B15	Barium	European Toy Safety Directive (88/378/EEC)	-
	Other barium compounds		-
<b>Bisphenol-A</b>			
B16	Bisphenol-A	Canadian Environmental Protection Act	80-05-7
<b>Nickel compounds</b>			
B17	Nickel	European Parliament and Council Directive (94/27/EC)	7440-02-0
<b>Red phosphorus</b>			
B18	Red phosphorus		7723-14-0
<b>Phosphorus-based flame retardants</b>			
B19	Aromatic phosphoric acid esters		-
	Aromatic condensed phosphoric acid ester		-
	Phosphoric acid esters containing halogen		-
	Phosphorus acid condensation esters containing halogen		-
	Red phosphorus		-
<b>Long-chain perfluoroalkyl carboxylate (LCPFACs)</b>			
	Perfluorooctyl iodide		507-63-1
	Tetrahydroperfluoro-1-decanol		678-39-7
	Perfluoro-1-dodecanol		865-86-1
	Perfluorodecyl iodide		2043-53-0
	1,1,2,2-Tetrahydroperfluorododecyl iodide		2043-54-1
	Perfluorodecylethyl acrylate		17741-60-5
	1,1,2,2-Tetrahydroperfluorodecyl acrylate		27905-45-9

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B20	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-Pentacosafuoro-14-iodotetradecane	United States TSCA Article 5 Significant New Use regulation(SNUR)	30046-31-2
	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-Pentacosafuorotetradecan-1-ol		39239-77-5
	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-Nonacosafuorohexadecan-1-ol		60699-51-6
	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-Nonacosafuoro-16-iodohexadecane		65510-55-6
	Sodium;2-methylpropane-1-sulfonate		68187-47-3
	1,1,2,2-Tetrahydroperfluoroalkyl (C8-C14) alcohol		68391-08-2
	Thiols, C8-20, gamma-omega-perfluoro, telomers with acrylamide		70969-47-0
	Silicic acid (H4SiO4), sodium salt (1:2), reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol		125476-71-3
	Thiols, C4-20, gamma-omega-perfluoro, telomers with acrylamide and acrylic acid, sodium salts		1078712-88-5
	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(2-((gamma-omega-perfluoro-C4-20-alkyl)thio)acetyl) derivs., inner salts		1078715-61-3
	Polyfluoroalkyl betaine (generic)		CBI (EPA Approval Number 71217) *
	Modified fluoroalkyl urethane (generic)		CBI (EPA Approval Number 89419) *
	Perfluorinated polyamine (generic)		CBI (EPA Approval Number 274147) *

\* EPA Approval Number for CBI (Confidential Information). Regarding the above 3 types of CBI substances, even if "CBI" is written in the information obtained by the supplier (SDS component table etc.), if that number is different from the above-mentioned 3 types, it will not be applicable.