

Prohibited Substances List

No.	Substance name	Threshold	Low	Remarks
A01	Cadmium and cadmium compounds	Intentional use prohibition and less than 100ppm of Impurities	European Union. RoHS Directive 2011/65/EC.	
A02	Hexavalent chromium compounds	Intentional use prohibition and less than 1000ppm of Impurities	European Union. RoHS Directive 2011/65/EC.	
A03	Lead and lead compounds	Intentional use prohibition and less than 1000ppm of Impurities	European Union. RoHS Directive 2011/65/EC.	
A04	Mercury and mercury compounds	Intentional use prohibition and less than 1000ppm of Impurities	European Union. RoHS Directive 2011/65/EC.	
A05	Polybrominated biphenyls	Intentional use prohibition and less than 1000ppm of Impurities	European Union. RoHS Directive 2011/65/EC.	
A06	Polybrominated diphenylethers	Intentional use prohibition and less than 1000ppm of Impurities	European Union. RoHS Directive 2011/65/EC.	
A07	Polychlorinated terphenyls	Principle prohibited	EU REACH Annex XVII restricted substances	
A08	Ethylene Oxide	Principle prohibited	PRTR system specified class 1 chemical substances	
A09	Chloroethene (Vinyl chloride)	Principle prohibited	PRTR system specified class 1 chemical substances	
A10	Dioxins	Principle prohibited	PRTR system specified class 1 chemical substances	
A11	Arsenic and its inorganic compounds	Principle prohibited	PRTR system specified class 1 chemical substances	
A12	Beryllium and Beryllium compounds	Principle prohibited	PRTR system specified class 1 chemical substances	
A13	Benzylidene trichloride	Principle prohibited	PRTR system specified class 1 chemical substances	
A14	Benzene	Less than 1000ppm	PRTR system specified class 1 chemical substances	
A15	Specific azo compounds	Less than 30ppm	EU REACH Annex XVII restricted substances Appendix 8 : Entry 43	Reference the 「Specific azo compounds list」
A16	Ozone-Depleting Substances	Principle prohibited	Montreal convention:Japan ,US and EU law.	
A17	Fluorine based green house gasses(HFC,PFC,SF6)	Principle prohibited	EU regulation (EC) No.842/2006	Reference the 「Fluorine based green house gasses list」
A18	Radioactive substances	Principle prohibited	-	Reference the 「radioactive substances list」
A19	Short-chain chlorinated paraffins (C10-13)	Principle prohibited	PRTR system class 1 designated chemical substances	
A20	Formaldehyde	Principle prohibited	PRTR system specified class 1 chemical substances	
A21	Dimethyl fumarate	Principle prohibited	EU REACH Annex XVII restricted substances	
A22	Tri-substituted organotin compounds	Intentional use prohibition and less than 1000ppm of Impurities	EU REACH Annex XVII restricted substances	
A23	Dibutyltin compounds	Less than 1000ppm	EU REACH Annex XVII restricted substances	
A24	Diocetyl tin compounds	Less than 1000ppm	EU REACH Annex XVII restricted substances	
A25	Bis(2-ethylhexyl)phthalate (DEHP)	Less than 1000ppm	European Union. RoHS Directive 2011/65/EC.	
A26	Dibutyl phthalate (DBP)	Less than 1000ppm	European Union. RoHS Directive 2011/65/EC.	
A27	Butyl benzyl phthalate (BBP)	Less than 1000ppm	European Union. RoHS Directive 2011/65/EC.	
A28	Diisobutyl Phthalate (DIBP)	Less than 1000ppm	European Union. RoHS Directive 2011/65/EC.	
A29	Phthalic acid ester 4 types (DEHP,DBP,BBP,DIBP)	Sum density of 4 types, less than 1000ppm	EU REACH Annex XVII restricted substances	Except EU RoHS directive target device
A30	Diisononyl Phthalate (DINP)	Less than 1000ppm	EU REACH Annex XVII restricted substances US Consumer product safety improvement Act	
A31	Diisodecyl phthalate (DIDP)	Less than 1000ppm	EU REACH Annex XVII restricted substances US Consumer product safety improvement Act	
A32	Di-n-octyl phthalate(DNOP)	Less than 1000ppm	EU REACH Annex XVII restricted substances US Consumer product safety improvement Act	

Prohibited Substances List

No.	Substance name	Threshold	Low	Remarks
A33	Tris(2-chloroethyl) phosphate(TCEP)	Less than 1000ppm	European Union. REACH Regulation (EC) No 1907/2006. United States. Vermont State. Act 85	
A34	Tris(2-chloro-1-methylethyl) Phosphate (TCPP)	Less than 1000ppm	European Union. REACH Regulation (EC) No 1907/2006. United States. Vermont State. Act 85	
A35	Tris(1,3-dichloro-2-propyl) Phosphate (TDCPP)	Less than 1000ppm	European Union. REACH Regulation (EC) No 1907/2006. United States. Vermont State. Act 85	
A36	Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	Less than 1000ppm	Norway. Product Regulations	
A37	Perfluorooctanoic Acid (PFOA) , its salt and PFOA related substances	PFOA and its salt less than 25ppb, or PFOA related substance less than 1000ppb	EU REACH Annex XVII restricted substances	
A38	Polychlorinated naphthalenes(1 or more chlorine atoms)	Principle prohibited	POPs Convention	
A39	Japan. Law Concerning the Examination and Regulation of Manufacture of Chemical Substances, Class I. (2021.10.22revised enforcement order)	Principle prohibited	-	Reference the 「Law Concerning the Examination and Regulation of Manufacture of Chemical Substances, Class I list」
A40	Japan. Industrial Safety and Health Law, Prohibited substances list (2018.6.1revised enforcement order)	Principle prohibited	-	Reference the 「Industrial Safety and Health Law, Prohibited substances list」
A41	TSCA PBT(Persistence, bioaccumulation, toxicity) 5 substances	Intentional use prohibition	PBT regulation based on United States TSCA	
A42	Perfluorocarboxylic acids with 9 to 14 carbon atoms (C9-C14 PFCAs) and its salt and C9-C14 PFCA related substances	C9-C14 PFCAs and its salt less than 25ppb, or C9-C14 PFCA related substances less than 260ppb	EU REACH Annex XVII restricted substances	
A43	Perfluorohexane-1-sulfonic acid(PFHxS) and its salt, and related substances	PFHxS and its salt less than 25ppb, or PFHxS related substance less than 1000ppb	POPs Convention	
A44	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]Octa-deca-7,15-Diene(Decrolane Plus)	Principle prohibited	POPs Convention	
A45	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	Principle prohibited	POPs Convention	

Prohibited Substances List

No.	Substances name	CAS No.
Cadmium and cadmium compounds		
A01	Cadmium	7440-43-9
	Cadmium oxide	1306-19-0
	Cadmium sulphide	1306-23-6
	Cadmium chloride	10108-64-2
	Cadmium sulphate	10124-36-4
	Other cadmium compounds	-
Hexavalent chromium compounds		
A02	Chromium(VI) oxide	1333-82-0
	Barium chromate	10294-40-3
	Calcium chromate	13765-19-0
	Chromium trioxide	1333-82-0
	Lead(II) chromate	7758-97-6
	C.I. Pigment Red 104	12656-85-8
	C.I. Pigment Yellow 34	1344-37-2
	Sodium chromate	7775-11-3
	Sodium dichromate	10588-01-9
	Chromic acid (H ₂ CrO ₄), strontium salt	7789-06-2
	Potassium bichromate	7778-50-9
	Potassium chromate	7789-00-6
	Zinc chromate	13530-65-9
Other hexavalent chromium compounds	-	
Lead and lead compounds		
A03	Lead	7439-92-1
	Sulfuric acid, lead(2+) salt (1:1)	7446-14-2
	Carbonic acid, lead(2+) salt (1:1)	598-63-0
	Lead(II) chromate	7758-97-6
	C.I. Pigment Red 104	12656-85-8
	Trilead bis(carbonate) dihydroxide	1319-46-6
	Lead(II) acetate	301-04-2
	Lead acetate trihydrate	6080-56-4

Prohibited Substances List

No.	Substances name	CAS No.
Lead and lead compounds		
A03	Trilead bis(orthophosphate)	7446-27-7
	Lead selenide	12069-00-0
	Lead dioxide	1309-60-0
	Lead oxide (Pb ₃ O ₄)	1314-41-6
	Lead sulfide	1314-87-0
	Lead monoxide (PbO)	1317-36-8
	Trilead bis(carbonate) dihydroxide	1319-46-6
	Bis[carbonato(2-)]dihydroxytrilead	1344-36-1
	Trilead bis(orthophosphate)	7446-27-7
	C.I. Pigment Yellow 34	1344-37-2
	Lead titanium trioxide	12060-00-3
	Sulphuric acid, lead salt	15739-80-7
	Lead oxide sulfate (Pb ₄ O ₃ (SO ₄))	12202-17-4
	Lead(II) distearate	1072-35-1
	Other lead compounds	-
Mercury and mercury compounds		
A04	Mercury	7439-97-6
	Mercuric chloride	33631-63-9
	Mercury dichloride	7487-94-7
	Mercury sulphate	7783-35-9
	Mercury dinitrate	10045-94-0
	Mercury oxide	21908-53-2
	Mercury(II) sulfide	1344-48-5
	Other mercury compounds	-
Polybrominated biphenyls		
A05	FireMaster BP 6	59536-65-1
	4,4'-Dibromobiphenyl	92-86-4
	2-bromobiphenyl	2052-07-5
	3-bromobiphenyl	2113-57-7
	4-Bromobiphenyl	92-66-0

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No.	Substances name	CAS No.
Polybrominated biphenyls		
A05	2,2',5'-Tribromobiphenyl	59080-34-1
	Tetrabromobiphenyl	40088-45-7
	Pentabromobiphenyl	56307-79-0
	2,2',4,4',5,5'-Hexabromobiphenyl	59080-40-9
	Hexabromobiphenyl	36355-01-8
	FireMaster FF 1	67774-32-7
	Heptabromobiphenyl	35194-78-6
	Octabromobiphenyl	61288-13-9
	Nonabromo-1,1'-biphenyl	27753-52-2
	Perbromobiphenyl	13654-09-6
Polybrominated diphenylethers		
A06	4-bromophenyl phenyl ether	101-55-3
	p,p'-Dibromodiphenyl ether	2050-47-7
	Diphenyl ether, tribromo derivative	49690-94-0
	Tetrabromo(phenoxybenzene)	40088-47-9
	Pentabromo(phenoxybenzene)	32534-81-9
	Hexabromo(phenoxybenzene)	36483-60-0
	Heptabromo(phenoxybenzene)	68928-80-3
	Benzene, 1,1'-oxybis-, octabromo deriv.	32536-52-0
	Pentabromo(tetrabromophenoxy)benzene	63936-56-1
	Decabromodiphenylether	1163-19-5
Polychlorinated terphenyls		
A07	Polychlorinated Terphenyl	61788-33-8
Ethylene Oxide		
A08	Ethylene Oxide	75-21-8
Chloroethene (Vinyl chloride)		
A09	Chloroethene (Vinyl chloride)	75-01-4
Dioxins		
A10	polychlorinated dibenzo-p-dioxins(PCDDs)	-
	polychlorinated dibenzofurans(PCDFs)	-
	dioxin-like polychlorinated biphenyls(DL-PCBs)	-

No.	Substances name	CAS No.
Arsenic and its inorganic compounds		
A011	Arsenic	7440-38-2
	Gallium arsenide	1303-00-0
	Calcium arsenate	7778-44-1
	Tricalcium diarsenite	27152-57-4
	Diarsenic pentaoxide	1303-28-2
	Diarsenic trioxide	1327-53-3
	Potassium arsonate	10124-50-2
	Potassium dihydrogenarsenate	7784-41-0
	Trilead diarsenate	3687-31-8
	Trilead diarsenate	-
Beryllium and beryllium compounds		
A12	Beryllium	7440-41-7
	Aluminium alloy, Al, Be	12770-50-2
	Beryllium chloride	7787-47-5
	Beryllium fluoride	7787-49-7
	Beryllium hydroxide (Be(OH) ₂)	13327-32-7
	Beryllium oxide	1304-56-9
	Phosphoric acid, beryllium salt (1:1)	13598-15-7
	Beryllium sulphate	13510-49-1
	Beryllium sulfate tetrahydrate	7787-56-6
	Beryl (Al ₂ Be ₃ (SiO ₃) ₆)	1302-52-9
	Other beryllium compounds	-
Benzylidyne trichloride		
A13	Benzylidyne trichloride	98-07-7
Benzene		
A14	Benzene	71-43-2
Specific azo compounds		
A15	Specific azo compounds	refer to Appendix2-3

No.	Substances name	CAS No.
Ozone-Depleting Substances		
A16	Montreal Protocol Object substances of annex A, B, C, E Ozone-depleting substance Reference URL http://www.env.go.jp/earth/ozone/montreal_protocol.html http://ozone.unep.org/	-
Fluorine based green house gasses(HFC,PFC,SF6)		
A17	Fluorine based green house gasses(HFC,PFC,SF6)	refer to Appendix2-4
Radioactive substances		
A18	Radioactive substances	refer to Appendix2-5
Short-chain chlorinated paraffins		
A19	Alkanes,C10-13,Chloro	85535-84-8
	Alkanes,C10-12,Chloro	108171-26-2
	Alkanes,C12-13,Chloro	71011-12-6
Formaldehyde		
A20	Formaldehyde	50-00-0
Dimethyl fumarate		
A21	Dimethyl fumarate	624-49-7
Trisubstituted organotin compounds		
A22	Triphenylstannyl dimethyldithiocarbamate	1803-12-9
	Fluoro(triphenyl)stannane	379-52-2
	Triphenylstannyl acetate	900-95-8
	Chloro(triphenyl)stannane	639-58-7
	Triphenylstannanol	76-87-9
	Triphenylstannyl 2,2,4,4-tetramethylpentanoate	18380-71-7
	Triphenylstannyl 2-isopropyl-2,3-dimethylbutanoate	18380-72-8
	Triphenylstannyl decanoate	47672-31-1
	Triphenylstannyl undecanoate	94850-90-5
	Triphenylstannyl chloroacetate	7094-94-2
	Tributan-1-ylstannyl methacrylate	2155-70-6
	Bis(tributan-1-ylstannyl) fumarate	6454-35-9
	Tributan-1-yl(fluoro)stannane	1983-10-4

No.	Substances name	CAS No.
Trisubstituted organotin compounds		
A22	rel-(2R,3S)-Bis(tributan-1-ylstannyl) 2,3-dibromosuccinate	31732-71-5
	Tributylstannyl acetate	56-36-0
	Tributan-1-ylstannyl dodecanoate	3090-36-6
	Bis(tributan-1-ylstannyl) phthalate	4782-29-0
	Poly[(methyl methacrylate)-co-(octan-1-yl acrylate)-co-(tributan-1-ylstannyl methacrylate)]	67772-01-4
	Tributan-1-ylstannyl sulfamate	6517-25-5
	Bis(tributan-1-ylstannyl) maleate	14275-57-1
	Tributan-1-yl(chloro)stannane	1461-22-9
	Chloro(triisobutyl)stannane	7342-38-3
	Stannane, tributyl-, mono(naphthenoxyloxy) derivs.	85409-17-2
Tributyltin abietate	26239-64-5	
Dibutyltin compounds		
A23	Stannane, dibutyloxo-	818-08-6
	Dibutyltin di(acetate)	1067-33-0
	Stannane, dibutylbis[(1-oxododecyl)oxy]-	77-58-7
	Dibutyltin maleate	78-04-6
	Other dibutyltin compounds	-
Diocetyl tin compounds		
A24	Diocetyl tin oxide	870-08-6
	Diocetyl tin dilaurate	3648-18-8
	Other diocetyl tin compounds	-
Bis(2-ethylhexyl) phthalate (DEHP)		
A25	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Dibutyl phthalate (DBP)		
A26	Dibutyl phthalate (DBP)	84-74-2
Butyl benzyl phthalate (BBP)		
A27	Butyl benzyl phthalate (BBP)	85-68-7
Diisobutyl phthalate (DIBP)		
A28	Diisobutyl phthalate (DIBP)	84-69-5

No.	Substances name	CAS No.
Diisononyl phthalate (DINP)		
A30	Diisononyl phthalate (DINP)	28553-12-0
		68515-48-0
Diisodecyl phthalate (DIDP)		
A31	Diisodecyl phthalate (DIDP)	26761-40-0
		68515-49-1
Di-n-octyl phthalate(DNOP)		
A32	Di-n-octyl phthalate(DNOP)	117-84-0
Tris(2-chloroethyl) phosphate(TCEP)		
A33	Tris(2-chloroethyl) phosphate(TCEP)	115-96-8
Tris(2-chloro-1-methylethyl) Phosphate (TCPP)		
A34	Tris(2-chloro-1-methylethyl) Phosphate (TCPP)	13674-87-8
Tris(1,3-dichloro-2-propyl) Phosphate (TDCPP)		
A35	Tris(1,3-dichloro-2-propyl) Phosphate (TDCPP)	13674-87-8
Perfluorooctanoic acid(PFOA) and individual salts and esters of PFOA		
A36	Perfluorooctanoate (PFOA)	335-67-1
	Perfluorooctanoic Acid ammonium salt	3825-26-1
	Perfluorooctanoic Acid sodium salt	335-95-5
	Perfluorooctanoic Acid potassium salt	2395-00-8
	Perfluorooctanoic Acid silver salt	335-93-3
	pentadecafluorooctyl fluoride	335-66-0
	Perfluorooctanoic acid methyl ester	376-27-2
	ethyl perfluorooctanoate	3108-24-5
Perfluorooctanoic Acid (PFOA) , its salt and PFOA related substances		
A37	<p>PFOA related substances represent the following.</p> <ul style="list-style-type: none"> •As one of the components, all the related substances that contain straight-chain having C7F15- and that is directly connected to another atom of carbon or that contain branched perfluoroheptyl groups (including its salt and polymer) •As one of the components, all the related substances that contain straight-chain that has C8F17- or that contain branched perfluorooctyl groups (including its salt and polymer) •The following substances are excluded from this designation. C8F17-C(=O)OH、C8F17-C(=O)O-X'又はC8F17-CF2-X' (X' = including optional group, salt) 	

No.	Substances name	CAS No.
Polychlorinated naphthalenes(1 or more chlorine atoms)		
A38	Polychlorinated naphthalenes(1 or more chlorine atoms)	-
Japan. Law Concerning the Examination and Regulation of Manufacture of Chemical Substances,		
A39	Japan. Law Concerning the Examination and Regulation of Manufacture of Chemical Substances, Class I. (2021.10.22revised enforcement order)	refer to Appendix2-6
Japan. Industrial Safety and Health Law,		
A40	Japan. Industrial Safety and Health Law,Prohibited substances list (2018.6.1revised enforcement order)	refer to Appendix2-7
TSCA PBT(Persistence, bioaccumulation, toxicity) 5 substances		
A41	Decabromodiphenyl ether (decaBDE)	1163-19-5
	Tris phosphate (Isopropylphenyl) (PIP(3:1)	68937-41-7
	2,4,6-Tri-tert-butylphenol (2,4,6-TTBP)	732-26-3
	Pentachlorothiophenol (PCTP)	133-49-3
	Hexachlorobutadiene (HCBd)	87-68-3
Perfluorocarboxylic acids with 9 to 14 carbon atoms (C9-C14 PFCAs) and its salt and C9-C14 PFCA related substances		
A42	<p>C9-C14 PFCAs and its salt and C9-C14 PFCA related substances refer to the following.</p> <ul style="list-style-type: none"> •Linear and branched perfluorocarboxylic acids of the formula $C_nF_{2n+1}-C(=O)OH$ where $n = 8, 9, 10, 11, 12, \text{ or } 13$ (C9-C14 PFCAs) •Any C9-C14 PFCA related substances having a perfluoro group with the formula $C_nF_{2n+1}-$ directly attached to another carbon atom, where $n = 8, 9, 10, 11, 12, \text{ or } 13$ •Any C9-C14 PFCA related substances having a perfluoro group with the formula $C_nF_{2n+1}-$ that it is not directly attached to another carbon atom, where $n = 9, 10, 11, 12, 13 \text{ or } 14$ as one of the structural elements <p>The following substances are excluded from this designation.</p> <ul style="list-style-type: none"> •$C_nF_{2n+1}-X$, where $X = F, Cl, \text{ or } Br$ where $n = 9, 10, 11, 12, 13 \text{ or } 14$, including any combinations thereof •$C_nF_{2n+1}-C(=O)OX'$ where $n > 13$ and X'=any group, including salts 	-

Prohibited Substances List

No.	Substances name	CAS No.
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]Octadeca-7,15-Diene (Decrolane Plus)		
A44	1,2,3,4,7,8,9,10,13,13,14,14-Dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-Dodecahydro-1,4;7,10-Dimethanodibenz[a,e]Cyclo-octene	13560-89-9
	rel-(1R,2R,5S,6S,9R,10R,13S,14S)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1(6,9).0(2,13).0(5,10)]Octadeca-7,15-Diene	135821-03-3
	rel-(1R,2R,5R,6R,9S,10S,13S,14S)-1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1(6,9).0(2,13).0(5,10)]Octadeca-7,15-Diene	135821-74-8
2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)		
A45	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	25973-55-1

Specific azo compounds

substances name	CAS No.
4-aminodiphenyl	92-67-1
benzidine	92-87-5
4-chloro-o-toluidine; 4-chloro-2-methylaniline	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene	97-56-3
2-amino-4-nitrotoluene; 5-nitro-o-toluidine	99-55-8
p-chloroaniline	106-47-8
2,4-diaminoanisole	615-05-4
4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	101-77-9
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethylbenzidine	119-90-4
3,3'-dimethylbenzidine	119-93-7
3,3'-dimethyl-4,4'-diaminodiphenylmethane; 4,4'-diamino-3,3'-diphenylmethane	838-88-0
p-cresidine; 6-methoxy-m-toluidine	120-71-8
4,4'-methylene-bis-(2-chloroanilene)	101-14-4
4,4'-oxideaniline	101-80-4
4,4'-thiodianiline; 4,4'-diaminodiphenylsulfide	139-65-1
o-toluidine	95-53-4
2,4-toluylenediamine; 4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-anisidine	90-04-0
4-aminoazobenzene	60-09-3

substances name	CAS No.
Tetrafluoromethane (Carbontetrafluoride, PFC-14)	75-73-0
Hexafluoroethane (PFC-116)	76-16-4
Octafluoropropane (PFC-218)	76-19-7
Decafluorobutane (PFC-31-10)	355-25-9
Dodecafluoropentane (PFC-41-12)	678-26-2
Tetradecafluorohexane (PFC-51-14)	355-42-0
Octafluorocyclobutane (PFC-c318)	115-25-3
Sulfur Hexafluoride (SF6)	2551-62-4
Trifluoromethane - (HFC-23)	75-46-7
Difluoromethane - (HFC-32)	75-10-5
Methyl fluoride – (HFC-41)	593-53-3
2H,3H-Decafluoropentane – (HFC-43-10mee)	138495-42-8
Pentafluoroethane (HFC-125)	354-33-6
1,1,2,2-Tetrafluoroethane – (HFC-134)	359-35-3
1,1,1,2-Tetrafluoroethane – (HFC-134a)	811-97-2
1,1-Difluoroethane – (HFC-152a)	75-37-6
1,1,2-Trifluoroethane–(HFC-143)	430-66-0
1,1,1-Trifluoroethane – (HFC-143a)	420-46-2
2H-Heptafluoropropane– (HFC-227ea)	431-89-0
1,1,1,2,2,3-hexafluoro-propane (HFC-236cb)	677-56-5
1,1,1,2,3,3-Hexafluoropropane –(HFC-236ea)	431-63-0
1,1,1,3,3,3-Hexafluoropropane –(HFC-236fa)	690-39-1
1,1,2,2,3-Pentafluoropropane –(HFC-245ca)	679-86-7
1,1,1,3,3-Pentafluoropropane –(HFC-245fa)	460-73-1
1,1,1,3,3-Pentafluorobutane – (HFC-365mfc)	406-58-6

Radioactive substances

substances name	CAS No.
Uranium	—
Plutonium	—
Radon	—
Americium	—
Thorium	—
Cesium	—
Strontium	—
Other radioactive substances	—

**Japan. Law Concerning the Examination and Regulation
of Manufacture of Chemical Substances, Class I.**

substances name	CAS No.
Polychlorobiphenyls	—
Polychlorinated naphthalenes (limited to those containing two or more chlorine atoms)	—
Hexachlorobenzene	—
Aldrine	—
Dieldrin	—
Endrine	—
DDT	—
Chlordane or Heptachlor	—
Bis(tributyltin) oxide	—
N,N'-Ditolyl-1,4-phenylenediamine	—
2,4,6-tri-tert-butylphenol	—
Toxaphene	—
Mirex	—
Kelthane or Dicofol	—
Hexachlorobuta-1,3-diene	—
2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol	—
perfluorooctanesulfonic(PFOS) acid and individual salts	—
Perfluorooctane-1-sulfonyl fluoride(PFOSF)	—
Pentachlorobenzene	—
r-1,c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane	—
r-1,t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane	—
r-1,c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane	—
Chlordecone	—
Hexabromobiphenyl	—
Tetrabromo(phenoxybenzene)	—
Pentabromo(phenoxybenzene)	—
Hexabromo(phenoxybenzene)	—
Heptabromo(phenoxybenzene)	—
Endsulfan	—
Hexabromocyclododecane	—
Pentachlorophenol and its salts and esters	—
Polychlorinated linear paraffins (those having 10 to 13 carbon atoms, chlorine In excess of 48% of the total weight.)	—

**Japan. Law Concerning the Examination and Regulation
of Manufacture of Chemical Substances, Class I.**

substances name	CAS No.
1,1'-Oxybis(pentabromobenzene) (Alias:Decabromodiphenyl ether)	—
Perfluorooctanoic acid (PFOA) or its salt	—

The recorded list of the enforcement law on October 22, 2021.

Although this list was created based on the relevant laws and regulations ,
it does not guarantee that there are laws and regulations Street .

Please check the original text of the appropriate relevant laws and
regulations when you use .

Japan. Industrial Safety and Health Law

substances name	CAS No.
Yellow phosphorus	—
Benzidine	—
4-aminodiphenyl and its chlorides(It's contained more than 1W%)	—
Asbestos, and other object or formulation that contain asbestos more than 0.1% of its weight (except A ~ C below) A Asbestos that is provided for sample for analyzing asbestos B Asbestos that is provided for education to acquire technique or for knowledge regarding the investigation of the state of usage C Asbestos that is used as raw material or ingredient of objects that are stated in A or B	—
4-nitrodiphenyl and its chlorides(It's contained more than 1W%)	—
Bis(Chloromethyl)ether(It's contained more than 1W%)	—
β -Naphthylamine(It's contained more than 1W%)	—
Rubber gule which contains benzene(It's contained more than 5V%)	—

It is targeting substances that are related to harmful substances etc. that are prohibited to be manufactured etc., regulated by Industrial Safety and Health Law, article 55 and the same implementing regulations, article 16. Although this list was created based on the relevant laws and regulations, it does not guarantee that there are laws and regulations Street. Please check the original text of the appropriate relevant laws and regulations when you use.