

Related document 1: JVC Kenwood Specific Chemicals List (Substance group basis)

(For Commercial, consumer, and business product)
Banned Substances List



No.	Category	Substance Name (Japanese)	Substance Name (English)	Threshold (Reporting Level)	Remarks
1	JIG specified substance	カドミウム/カドミウム化合物	Cadmium and Cadmium Compounds	1. Intentionally added 2. Any content greater than 100 ppm (0.01%) by weight of homogeneous material	*6
2	JIG specified substance	六価クロム化合物	Hexavalent Chromium Compounds	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight of homogeneous material.	*6
3	JIG specified substance	鉛/鉛化合物	Lead and Lead Compounds	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight in homogeneous material or, for accessible surface of cables/cords (thermoset/ thermoplastic coating), content greater than 300 ppm (0.03%) by weight	*6
4	JIG specified substance	水銀/水銀化合物	Mercury and Mercury Compounds	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight of homogeneous material.	*6
5	JIG specified substance	トリブチルスズ=オキシド(TBTO)	Tributyl Tin Oxide (TBTO)	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight of homogeneous material.	
6	JIG specified substance	一部のトリブチルスズ類(TBT 類) トリフェニルスズ類(TPT 類)	Tributyl Tins & Triphenyl Tins	Intentionally added	
7	JIG specified substance	ポリ臭化ビフェニル類(PBB類)	Polybrominated Biphenyls (PBBs)	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight of homogeneous material	
8	JIG specified substance	ポリ臭化ジフェニルエーテル類(PBDE類)	Polybrominated Diphenyl Ethers(PBDEs)	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight of homogeneous material	
9	JIG specified substance	ポリ塩化ビフェニル類(PCB類:ポリ塩化ビフェニル/ポリ塩化トリフェニル類を対象とする。)	Polychlorinated Biphenyls (PCBs, PCTs)	Intentionally added	
10	JIG specified substance	ポリ塩化ナフタレン(塩素原子数が3以上)	Polychlorinated Naphthalenes (Cl =>3)	Intentionally added	
11	JIG specified substance	短鎖型塩化パラフィン(炭素鎖長:10~13の短鎖型塩化パラフィンを対象とする。)	Short Chain Chlorinated Paraffins	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight	
12	JIG specified substance	アスベスト類	Asbestos	Any content must be reported	
13	JIG specified substance	一部のアゾ染料・顔料	Azo Colorants	1. Intentionally added 2. Any content greater than 30 ppm (0.003%) by weight in finished textile or leather articles	*3
14	JIG specified substance	オゾン層破壊物質	Ozone Depleting Substances	Any content must be reported	
15	JIG specified substance	放射性物質	Radioactive Substances	Intentionally added	
16	Initiatively banned substance	ホルムアルデヒド	Formaldehyde	As different countries specify different regulation values, contact us for details.	*5
17	Initiatively banned substance	パーフルオロオクタンスルホン酸(PFOS)及びその塩	Perfluorooctanesulfonic acid	For coating portions, 1 microgram per square meter or more; for preparation (ex. grease and oil), 50 ppm or more by weight; for others, 1,000 ppm or more by weight.	*7

Restricted Substances List

No.	Category	Substance Name (Japanese)	Substance Name (English)	Threshold (Reporting Level)	Remarks
1	JIG specified substance	アンチモン/アンチモン化合物	Antimony and Antimony Compounds	Greater than 1,000 ppm (0.1%)	
2	JIG specified substance	ヒ素/ヒ素化合物	Arsenic and Arsenic Compounds	Greater than 1,000 ppm (0.1%)	
3	JIG specified substance	ベリリウム/ベリリウム化合物	Beryllium and Beryllium Compounds	Greater than 1,000 ppm (0.1%)	
4	JIG specified substance	ビスマス/ビスマス化合物	Bismuth and Bismuth Compounds	Greater than 1,000 ppm (0.1%)	
5	JIG specified substance	ニッケル	Nickel and Nickel Compounds	DIN EN1811: During the testing, flaked nickel should not exceed 0.5 ug/cm2 in weight.	*1
6	JIG specified substance	セレン/セレン化合物	Selenium and Selenium Compounds	Greater than 1,000 ppm (0.1%)	
7	JIG specified substance	臭素系難燃剤	Brominated Flame Retardants	Greater than 1,000 ppm (0.1%)	*2
8	JIG specified substance	ポリ塩化ビニル(PVC)	Vinyl Chloride Polymer (PVC)	Greater than 1,000 ppm (0.1%)	
9	JIG specified substance	一部のフタル酸エステル類	Phthalates	Greater than 1,000 ppm (0.1%)	*4
10	REACH SVHC	上記の物質群に該当しない REACH SVHC *9	Substance that doesn't correspond to the above-mentioned material group in REACH SVHC *9	Greater than 1,000 ppm (0.1%)	*8

REACH SVHC(Candidate List of Substances of Very High Concern for authorisation)

1	REACH SVHC	重クロム酸ナトリウム・2水和物	Sodium dichromate	Greater than 1,000 ppm (0.1%)	*8
2	REACH SVHC	トリブチルスズ=オキシド(TBTO) ビス(トリブチルスズ)=オキシド	Tributyl Tin Oxide (TBTO) Bis(tributyltin)oxide	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight	*8
3	REACH SVHC	短鎖型塩化パラフィン (炭素鎖長:10~13の短鎖型塩化パラフィンを対象とする。)	Alkanes, C10-13, chloro Short Chain Chlorinated Paraffins	1. Intentionally added 2. Any content greater than 1,000 ppm (0.1%) by weight	*8
4	REACH SVHC	4,4'-メチレンジアニリン	4,4'- Diaminodiphenylmethane (MDA)	Greater than 1,000 ppm (0.1%)	*8
5	REACH SVHC	五酸化ニヒ素	Diarsenic pentaoxide	Greater than 1,000 ppm (0.1%)	*8
6	REACH SVHC	三酸化ニヒ素(亜ヒ酸)	Diarsenic trioxide	Greater than 1,000 ppm (0.1%)	*8
7	REACH SVHC	ヒ酸トリエチル	Triethyl arsenate	Greater than 1,000 ppm (0.1%)	*8
8	REACH SVHC	ヒ酸鉛	Lead hydrogen arsenate	Greater than 1,000 ppm (0.1%)	*8
9	REACH SVHC	フタル酸n-ブチルベンジル	Benzyl butyl phthalate (BBP)	Greater than 1,000 ppm (0.1%)	*8
10	REACH SVHC	フタル酸ジ-n-ブチル、 フタル酸ジブチル	Dibutyl phthalate (DBP)	Greater than 1,000 ppm (0.1%)	*8
11	REACH SVHC	フタル酸ビス(2-エチルヘキシル)	Bis (2-ethylhexyl)phthalate(DEHP)	Greater than 1,000 ppm (0.1%)	*8
12	REACH SVHC	ヘキサブプロモシクロドデカン (異性体混合物)	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	Greater than 1,000 ppm (0.1%)	*8
13	REACH SVHC	アントラセン	Anthracene	Greater than 1,000 ppm (0.1%)	*8 *9
14	REACH SVHC	塩化コバルト(II)	Cobalt dichloride	Greater than 1,000 ppm (0.1%)	*8 *9
15	REACH SVHC	2,4,6-トリニトロ-5-tert-ブチル-1,3-キシレン (ムスクキシレン)	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	Greater than 1,000 ppm (0.1%)	*8 *9

This table shows the names and threshold levels of the chemicals groups specified in the JGPSSI (JIG Levels of A and B) and the substance groups we have voluntarily banned their uses.

"Banned Substances" mean substances which are banned in legislation of a country, substances which may be banned or substances which are required to report.

Though no chemicals from the restricted substances (JIG Level B) will be banned or regulated, disclosure of any information regarding the contents will be required in some cases where they are used for or used in electric/electronic products.

There is duty to communicate information for substances listed as REACH SVHC with *8.

Therefore, the general report threshold level is set to 1,000 ppm, based on the a calculation value of each category of inorganic substance units (total mass contained) or organic compounds that the subject product/component contains divided by the total mass of that product/component.

If contents of any restricted chemicals(Substances) contained in the products are known, report the figures, even if the figures are below relevant threshold levels.

*1: The use of nickel is required to be reported only if it is likely that skin has direct contact with nickel for a long time, such as product housing of a portable electronic device.

*2: Brominated flame retardant other than PBBs and PBDEs.

*3: Azo dyes/pigments, only those used for textile or leather products, that form specific amines.

Specific amines are amine compounds that the 19th amendment directive to 76/769/EEC specifies.

*4: Only five chemicals, listed below, that are subjected to the EU Risk Assessment:

Dibutylphthalate, Di (2-ethylhexyl) phthalate, Diisononyl phthalate, 1,2-Benzenedicarboxylic acid diisodecyl ester, and Butyl benzyl phthalate.

Especially, Di (2-ethylhexyl) (DEHP (DOP)) should not be used for portions or products that the human body obviously touches all the time while using them.

*5: Restricted for some woodworks to be sold in Europe and/or USA. Refer to the regulations list.

*6: The RoHS Directive specifies some exemptions by use. 100ppm or less in total in case of packaging material.

*7: Use is allowed for the following purposes: (1) Photographic coating on film, paper, or original printing plates,

(2) Anti-mist agents and lubricant for non-decorative hard hexavalent chrome plating, used in an electroplating system that is so controlled that the PFOS emission should be minimized.

*8: Substances listed as REACH SVHC are published by European Chemical Agency (ECHA) as SVHC (Candidate List of Substances of Very High Concern for Authorisation).

Some or all of these substances will be listed in Annex XIV for authorisation.

The table will be updated when ECHA publishes the additional substances.

*9: REACH SVHC that doesn't correspond to other Substance group in Specific Chemicals List

Related document 2: JVC Kenwood Specific Chemicals Details

These lists do not necessarily cover all controlled substances. They simply illustrate chemicals with known CAS numbers.

For products and components that contain substances related to those listed below, report with the information shown below:

Asbestos	CAS No. or JIG Substances Class. No. if no CAS
Asbestos	1332-21-4
Actinolite	77536-66-4
Amosite (Grunerite)	12172-73-5
Anthophyllite	77536-67-5
Chrysotile	12001-29-5
Crocidolite	12001-28-4
Tremolite	77536-68-6

Specific amines formed from azo dyes/pigments

(EU bans certain azo dyes/pigments that generate any of the following 22 aromatic amines when their azo radicals are disconnected through reduction.)

4-aminobiphenyl	92-67-1
Benzidine	92-87-5
o-chlorotoluidine	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene	97-56-3
5-nitro-o-toluidine	99-55-8
p-chloroaniline	106-47-8
2,4-diaminoanisole	615-05-4
4,4'-diaminodiphenylmethane	101-77-9
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethoxybenzidine	119-90-4
3,3'-dimethylbenzidine	119-93-7
4,4'-methylenebis(2-methylaniline)	838-88-0
6-methoxy-m-toluidine	120-71-8
4,4'-methylenebis(2-chloroaniline)	101-14-4
4,4'-oxydianiline	101-80-4
4,4'-diaminodiphenylsulfide	139-65-1
o-toluidine	95-53-4
4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-anisidine	90-04-0
4-amino azobenzene	60-09-3

Cadmium/Cadmium Compounds	CAS No. or JIG Substances Class. No. if no CAS
Cadmium	7440-43-9
Cadmium oxide	1306-19-0
Cadmium sulfide	1306-23-6
Cadmium chloride	10108-64-2
Cadmium sulfate	10124-36-4
Other cadmium compounds	A05990 - 9

Hexavalent Chromium Compounds	CAS No. or JIG Substances Class. No. if no CAS
Chromium oxide (Hexavalent)	1333-82-0
Barium chromate	10294-40-3
Calcium chromate	13765-19-0
Chromium trioxide	1333-82-0
Leadchromate	7758-97-6
Sodium chromate	7775-11-3
Sodium dichromate	10588-01-9
Sodium dichromate, dihydrate	7789-12-0
Strontium chromate	7789-06-2
Potassium dichromate	7778-50-9
Potassium chromate	7789-00-6
Zinc chromate	13530-65-9
Other hexavalent chromium compounds	A07990 - 9

Lead/Lead Compounds	CAS No. or JIG Substances Class. No. if no CAS
Lead	7439-92-1
Lead(II)sulfate	7446-14-2
Lead(II)carbonate	598-63-0
Lead hydrocarbonate	1319-46-6
Lead acetate	301-04-2
Lead(II)acetate, trihydrate	6080-56-4
Lead phosphate	7446-27-7
Lead selenide	12069-00-0
Lead(IV)oxide	1309-60-0
Lead(II,IV)oxide	1314-41-6
Lead(II)sulfide	1314-87-0
Lead(II)oxide	1317-36-8
Basic lead(II)carbonate	1319-46-6
Lead hydroxidcarbonate	1344-36-1
Lead(II)phosphate	7446-27-7
Lead(II)chromate	7758-97-6
Lead(II)titanate	12060-00-3
Lead sulfate	15739-80-7
Lead sulphate, tribasic	12202-17-4
Lead stearate	1072-35-1
Other lead compounds	A09990 - 9

Mercury/Mercury Compounds	CAS No. or JIG Substances Class. No. if no CAS
Mercury	7439-97-6
Mercuric chloride	33631-63-9
Mercury(II)chloride	7487-94-7
Mercuric sulfate	7783-35-9
Mercuric nitrate	10045-94-0
Mercuric(II)oxide	21908-53-2
Mercuric sulfide	1344-48-5
Other mercury compounds	A10990 - 9

Ozone Depleting Substances/Isomers*	CAS No. or JIG Substances Class. No. if no CAS
Trichlorofluoromethane	75-69-4
Dichlorodifluoromethane (CFC12)	75-71-8
Trifluorochloromethane (CFC13)	75-72-9
Pentachlorofluoroethane (CFC111)	354-56-3
Tetrachlorodifluoroethane (CFC112)	76-12-0
Trichlorotrifluoroethane (CFC113)	354-58-5
1,1,2-trichloro-1,2,2trifluoroethane	76-13-1
Dichlorotetrafluoroethane (CFC114)	76-14-2
Monochloropentafluoroethane (CFC115)	76-15-3
Heptachlorofluoropropane (CFC211)	422-78-6 135401-87-5
Hexachlorodifluoropropane (CFC212)	3182-26-1
Pentachlorotrifluoropropane (CFC213)	2354-06-5 134237-31-3
Tetrachlorotetrafluoropropane (CFC214)	29255-31-0
1,1,1,3-tetrachloroerafluoropropane	2268-46-4
Trichloropentafluoropropane (CFC215)	1599-41-3
1,1,1-trichloropentafluoropropane	4259-43-2
1,2,3-trichloropentafluoropropane	76-17-5
Dichlorohexafluoropropane (CFC216)	661-97-2
Monochloroheptafluoropropane (CFC217)	422-86-6
Bromochlorodifluoromethane (Halon 1211)	353-59-3
Bromotrifluoromethane (Halon 1301)	75-63-8
Dibromotetrafluoromethane (Halon 2402)	124-73-2
Carbon tetrachloride (Tetrachloromethane)	56-23-5
1,1,1,-trichloroethane(methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6
Bromomethane (Methyl Bromide)	74-83-9
Dibromofluoromethane	1868-53-7
Bromodifluoromethane	1511-62-2
Bromofluoromethane	373-52-4
Tetrabromofluoroethane	306-80-9
Tribromofluoroethane	C04104
Dibromotrifluoroethane	354-04-1
Bromotetrafluoroethane	124-72-1
Tribromofluoroethane	C04104
Dibromodifluoroethane	75-82-1
Bromotrifluoroethane	421-06-7
Dibromofluoroethane	358-97-4
Bromodifluoroethane	420-47-3
Bromofluoroethane	762-49-2
Hexabromofluoropropane	C04104
Pentabromodifluoropropane	C04104
Tetrabromotrifluoropropane	C04104
Tribromotetrafluoropropane	C04104
Dibromopentafluoropropane	431-78-7
Bromohexafluoropropane	2252-78-0
Pentabromofluoropropane	C04104
Tetrabromodifluoropropane	C04104
Tribromotrifluoropropane	C04104
Dibromotetrafluoropropane	C04104
Bromopentafluoropropane	460-88-8
Tetrabromofluoropropane	C04104
Tribromodifluoropropane	70192-80-2
Dibromotrifluoropropane	431-21-0
Bromotetrafluoropropane	679-84-5
Tribromofluoropropane	75372-14-4
Dibromodifluoropropane	460-25-3
Bromotrifluoropropane	421-46-5
Dibromofluoropropane	51584-26-0
Bromodifluoropropane	C04104
Bromofluoropropane	1871-72-3
Bromochloromethane	74-97-5

* Note: Those substances may include Isomers not listed above. Isomers with a CAS number are added to the list when they become available.

Hydrochlorofluorocarbons/Isomers*	CAS No. or JIG Substances Class. No. if no CAS
Dichlorofluoromethane (HCFC 21)	75-43-4
Chlorodifluoromethane (HCFC 22)	75-45-6
Chlorofluoromethane (HCFC 31)	593-70-4
Tetrachlorofluoroethane (HCFC 121)	134237-32-4
1,1,1,2-tetrachloro-2-fluoroethane (HCFC 121a)	354-11-0
1,1,2,2-tetrachloro-1-fluoroethane	354-14-3
Trichlorodifluoroethane (HCFC 122)	41834-16-6
1,2,2-trichloro-1,1-difluoroethane	354-21-2
Dichlorotrifluoroethane (HCFC 123)	34077-87-7
Dichloro-1,1,2-trifluoroethane	90454-18-5
2,2-dichloro-1,1,1-trifluoroethane	306-83-2
1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)	354-23-4
1,1-dichloro-1,2,2-trifluoroethane (HCFC-123b)	812-04-4
2,2-dichloro-1,1,2-trifluoroethane (HCFC-123b)	812-04-4
Chlorotetrafluoroethane (HCFC 124)	63938-10-3
2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0
1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a)	354-25-6
Trichlorofluoroethane (HCFC 131)	27154-33-2;(134237-34-6)
1-fluoro-1,2,2-trichloroethane	359-28-4
1,1,1-trichloro-2-fluoroethane (HCFC131b)	811-95-0
1-chloro-1-fluoroethane (HCFC-151)	1615-75-4
Dichlorodifluoroethane (HCFC 132)	25915-78-0
1,2-dichloro-1,1-difluoroethane (HCFC 132b)	1649-08-7
1,1-dichloro-1,2-difluoroethane (HCFC 132c)	1842-05-3
1,1-dichloro-2,2-difluoroethane	471-43-2
1,2-dichloro-1,2-difluoroethane	431-06-1
Chlorotrifluoroethane (HCFC 133)	1330-45-6
1-chloro-1,2,2-trifluoroethane	1330-45-6
2-chloro-1,1,1-trifluoroethane (HCFC-133a)	75-88-7
Dichlorofluoroethane (HCFC 141)	1717-00-6; (25167-88-8)
1,1-dichloro-1-fluoroethane (HCFC-141b)	1717-00-6
1,2-dichloro-1-fluoroethane	430-57-9
Chlorodifluoroethane (HCFC 142)	25497-29-4
1-chloro-1,1-difluoroethane (HCFC142b)	75-68-3
1-chloro-1,2-difluoroethane (HCFC142a)	25497-29-4
Hexachlorofluoropropane (HCFC 221)	134237-35-7
Pentachlorodifluoropropane (HCFC 222)	134237-36-8
Tetrachlorotrifluoropropane (HCFC 223)	134237-37-9
Trichlorotetrafluoropropane (HCFC 224)	134237-38-0
Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC 225)	127564-92-5; (2713-09-9)
2,2-dichloro-1,1,1,3,3-pentafluoropropane (HCFC 225aa)	128903-21-9
2,3-dichloro-1,1,1,2,3-pentafluoropropane (HCFC 225ba)	422-48-0
1,2-dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225bb)	422-44-6
3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC 225ca)	422-56-0
1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC 225cb)	507-55-1
1,1-dichloro-1,2,2,3,3-pentafluoropropane (HCFC 225cc)	13474-88-9
1,2-dichloro-1,1,3,3,3-pentafluoropropane (HCFC 225da)	431-86-7
1,3-dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225ea)	136013-79-1
1,1-dichloro-1,2,3,3,3-pentafluoropropane (HCFC 225eb)	111512-56-2
Chlorohexafluoropropane (HCFC 226)	134308-72-8
Pentachlorofluoropropane (HCFC 231)	134190-48-0
Tetrachlorodifluoropropane (HCFC 232)	134237-39-1
Trichlorotrifluoropropane (HCFC 233)	134237-40-4
1,1,1-trichloro-3,3,3-trifluoropropane	7125-83-9
Dichlorotetrafluoropropane (HCFC 234)	127564-83-4
Chloropentafluoropropane (HCFC 235)	134237-41-5
1-chloro-1,1,3,3,3-pentafluoropropane	460-92-4
Tetrachlorofluoropropane (HCFC 241)	134190-49-1
Trichlorodifluoropropane (HCFC 242)	134237-42-6
Dichlorotrifluoropropane (HCFC 243)	134237-43-7
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
2,3-dichloro-1,1,1-trifluoropropane	338-75-0
3,3-dichloro-1,1,1-trifluoropropane	460-69-5
Chlorotetrafluoropropane (HCFC 244)	134190-50-4
3-chloro-1,1,2,2-tetrafluoropropane	679-85-6
Trichlorofluoropropane (HCFC 251)	134190-51-5
1,1,3-trichloro-1-fluoropropane	818-99-5
Dichlorodifluoropropane (HCFC 252)	134190-52-6
Chlorotrifluoropropane (HCFC 253)	134237-44-8
3-chloro-1,1,1-trifluoropropane (HCFC 253fb)	460-35-5
Dichlorofluoropropane (HCFC 261)	134237-45-9
1,1-dichloro-1-fluoropropane	7799-56-6
Chlorodifluoropropane (HCFC 262)	134190-53-7
2-chloro-1,3-difluoropropane	102738-79-4
Chlorofluoropropane (HCFC 271)	134190-54-8
2-chloro-2-fluoropropane	420-44-0

* Note: Those substances may include Isomers not listed above. Isomers with a CAS number are added to the list when they become available.

Polybrominated Biphenyls (PBBs)	CAS No. or JIG Substances Class. No. if no CAS
Polybrominated Biphenyls	59536-65-1
Dibromobiphenyl	92-86-4
2-bromobiphenyl	2052-07-5
3-bromobiphenyl	2113-57-7
4-bromobiphenyl	92-66-0
Tribromobiphenyl	59080-34-1
Tetrabromobiphenyl	40088-45-7
Pentabromobiphenyl	56307-79-0
Hexabromobiphenyl	59080-40-9
Hexabromo-1,1'-biphenyl	36355-01-8
Firemaster FF-1	67774-32-7
Heptabromobiphenyl	35194-78-6
Octabromobiphenyl	61288-13-9
Nonabromo-1,1'-biphenyl	27753-52-2
Decabromobiphenyl	13654-09-6
Polybrominated Diphenyl Ethers (PBDEs)	CAS No. or JIG Substances Class. No. if no CAS
Bromodiphenylether	101-55-3
Dibromodiphenylether	2050-47-7
Tribromodiphenylether	49690-94-0
Tetrabromodiphenylether	40088-47-9
Pentabromodiphenylether	32534-81-9
Note: Commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.	(A CAS number used for commercially branded PeBDPO)
Hexabromodiphenylether	36483-60-0
Heptabromodiphenylether	68928-80-3
Octabromodiphenylether	32536-52-0
Nonabromodiphenylether	63936-56-1
Decabromodiphenylether	1163-19-5
Polychlorinated Biphenyls and Terphenyls (PCBs and PCTs)	CAS No. or JIG Substances Class. No. if no CAS
Polychlorinated Biphenyls	1336-36-3
Aroclor	12767-79-2
Chlorodiphenyl (Aroclor 1260)	11096-82-5
Kanechlor 500	27323-18-8
Aroclor 1254	11097-69-1
Monomethyltetrachlorodiphenylmethane (Ugilec 141)	76253-60-6
Monomethyldichlorodiphenylmethane (Ugilec 121 and Ugilec 21)	B05009
Monomethyldibromodiphenylmethane (DBBT)	99688-47-8
PCT (Polychlorinated terphenyl)	61788-33-8
Polychlorinated Naphthalenes	CAS No. or JIG Substances Class. No. if no CAS
Polychlorinated Naphthalenes	70776-03-3
Other polychlorinated naphthalenes	B06997 - 9
Radioactive Substances (Radioisotopes)	CAS No. or JIG Substances Class. No. if no CAS
Uranium	C06001
Plutonium	C06002
Radon	C06003
Americium	C06004
Thorium	C06007
Cesium (only radioisotopes)	C06006
Strontium (only radioisotopes)	C06007
Other radioactive substances	C06997 - 9
Note: Those naturally exist should be excluded.	
Short chain chlorinated paraffin	CAS No. or JIG Substances Class. No. if no CAS
Chlorinated paraffin (C10-13)	85535-84-8
Note: Only short-chain chlorinated paraffin with carbon length of 10-13 atoms are covered.	
Tributyltin Oxide	CAS No. or JIG Substances Class. No. if no CAS
Bis(tri-n-butyltin)oxide	56-35-9
Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT) compounds	CAS No. or JIG Substances Class. No. if no CAS
Triphenyltin=N,N'-dimethyldithiocarbamate	1803-12-9
Triphenyltin=fluoride	379-52-2
Triphenyltin=acetate	900-95-8
Triphenyltin=chloride	639-58-7
Triphenyltin=hydroxide	76-87-9
Triphenyltin=fatty acid salts (C=9-11)	18380-71-7 18380-72-8 47672-31-1 94850-90-5
Triphenyltin=chloroacetate	7094-94-2
Tributyltin=methacrylate	2155-70-6
Bis(tributyltin)=fumarate	6454-35-9
Tributyltin=fluoride	1983-10-4
Bis(tributyltin)=2,3-dibromosuccinate	31732-71-5
Tributyltin=acetate	56-36-0
Tributyltin=laurate	3090-36-6
Bis(tributyltin)=phthalate	4782-29-0
Copolymer of alkyl=acrylate, methyl=methacrylate and tributyltin=methacrylate (alkyl; C=8)	67772-01-4
Tributyltin=sulfamate	6517-25-5
Bis(tributyltin) maleate	14275-57-1
Tributyltin=chloride	1461-22-9,7342-38-3
Mixture of tributyltin=cyclopentanecarboxylate and its analogs (Tributyltin=naphthenate)	5409-17-2
Mixture of tributyltin=1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthlenecarboxylate and its analogs (Tributyltin rosin salt)	26239-64-5

Antimony/Antimony Compounds	CAS No. or JIG Substances Class. No. if no CAS
Antimony (Metallic)	7440-36-0
Antimony trioxide	1309-64-4
Antimony pentoxide	1314-60-9
Antimony trichloride	10025-91-9
Sodium antimonate	15432-85-6
Other antimony compounds	A01997 - 9
Arsenic/Arsenic Compounds	CAS No. or JIG Substances Class. No. if no CAS
Arsenic	7440-38-2
Gallium arsenate	1303-00-0
Calcium arsenate	7778-44-1
Calcium arsenite	27152-57-4
Arsenic pentoxide	1303-28-2
Arsenic trioxide	1327-53-3
Potassium arsenite	10124-50-2
Potassium arsenate	7784-41-0
Lead arsenate	3687-31-8, 7784-40-9
Other arsenic compounds	A02997 - 9
Beryllium/Beryllium Compounds	CAS No. or JIG Substances Class. No. if no CAS
Beryllium	7440-41-7
Beryllium-aluminum alloy	12770-50-2
Beryllium chloride	7787-47-5
Beryllium fluoride	7787-49-7
Beryllium hydroxide	13327-32-7
Beryllium oxide	1304-56-9
Beryllium phosphate	13598-15-7
Beryllium sulfate	13510-49-1
Beryllium sulfate tetrahydrate	7787-56-6
Beryl ore	1302-52-9
Other beryllium compounds	A03997 - 9
Bismuth/ Bismuth Compounds	CAS No. or JIG Substances Class. No. if no CAS
Bismuth	7440-69-9
Bismuth trioxide	1304-76-3
Bismuth nitrate	10361-44-1
Other bismuth compounds	A04997~9
Brominated Flame Retardants (other than PBBs and PBBEs)	CAS No. or JIG Substances Class. No. if no CAS
Brominated flame retardant which falls under the notation from ISO 1043-4 code number FR(14): Aliphatic/alicyclic brominated compounds	B08001
Brominated flame retardant which falls under the notation from ISO 1043-4 code number FR(15): Aliphatic/alicyclic brominated compounds in combination with antimony compounds	B08002
Brominated flame retardant which falls under the notation from ISO 1043-4 code number FR(16): Aromatic brominated compounds other than brominated diphenyl ether and biphenyls	B08003
Brominated flame retardant which falls under the notation from ISO 1043-4 code number FR(17): Aromatic brominated compounds, other than brominated diphenyl ether and biphenyls, in combination with antimony compounds	B08004
Brominated flame retardant which falls under the notation from ISO 1043-4 code number FR(22): Aliphatic/alicyclic chlorinated and brominated compounds	B08005
Brominated flame retardant which falls under the notation of ISO 1043-4 code number FR(42): Brominated organic phosphorus compounds	B08006
Poly(2,6-dibromo-phenylene oxide)	69882-11-7
Tetra-decabromo-diphenoxy-benzene	58965-66-5
1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1
3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	79-94-7
TBBA, unspecified	30496-13-0
TBBA-epichlorohydrin oligomer	40039-93-8
TBBA (TBBA-diglycidyl-ether oligomer)	70682-74-5
TBBA carbonate oligomer	28906-13-0
TBBA carbonate oligomer, end capped with phenoxy	94334-64-2
TBBA carbonate oligomer, terminated with 2,4,6-tribromophenol	71342-77-3
TBBA-bisphenol A-phosgene polymer	32844-27-2
Brominated epoxy resin end-capped with tribromophenol	139638-58-7
Brominated epoxy resin end-capped with tribromophenol	135229-48-0
TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
TBBA-bis-(allyl-ether)	25327-89-3
TBBA-dimethyl-ether	37853-61-5
Tetrabromo-bisphenol S	39635-79-5
TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
2,4-dibromo-phenol	615-58-7
2,4,6-tribromo-phenol	118-79-6
Pentabromo-phenol	608-71-9
2,4,6-tribromo-phenyl-allyl-ether	3278-89-5
Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
Bis(methyl)tetrabromo-phthalate	55481-60-2
Tetrabromophthalate bis(2-ethylhexyl)	26040-51-7
2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	20566-35-2
TBPA, glycol-and propylene-oxide esters	75790-69-1
N,N'-ethylene -bis-(tetrabromo-phthalimide)	32588-76-4
Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
2,3-dibromo-2-butene-1,4-diol	3234-02-4

Brominated Flame Retardants (other than PBBs and PBBEs)	CAS No. or JIG Substances Class. No. if no CAS
Dibromo-neopentyl-glycol	3296-90-0
2,3-dibromo-propanol	96-13-9
Tribromo-neopentyl-alcohol	36483-57-5
Poly tribromo-styrene	57137-10-7
Tribromo-styrene	61368-34-1
Dibromo-styrene grafted PP	171091-06-8
Poly-dibromo-styrene	31780-26-4
Bromoparaffin/chloroparaffin	68955-41-9
Bromo-alpha-olefin/Chloro-alpha-olefin	82600-56-4
Bromoethylene	593-60-2
Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9
Tris(2,4-dibromo-phenyl) phosphate	49690-63-3
Tris(tribromo-neopentyl) phosphate	19186-97-1
Chlorinated and brominated phosphate ester	125997-20-8
Pentabromo-toluene	87-83-2
Pentabromo-benzyl bromide	38521-51-6
1,3-Butadiene homopolymer, brominated	68441-46-3
Pentabromo-benzyl-acrylate, monomer	59447-55-1
Pentabromo-benzyl-acrylate, polymer	59447-57-3
Decabromo-diphenyl-ethane	84852-53-9
Brominated trimethylphenyl-lindane	59789-51-4
Brominated trimethylphenyl-lindane	59789-51-4
Other brominated flame retardants	B08997 - 9
1,2,5,6,9,10-Hexabromo-cyclo-dodecane (HBCDD)	3194-55-6
Tetrabromocyclooctane	31454-48-5
1,2-dibromo-4-(1,2 dibromo-ethyl)-cyclo-hexane	3322-93-8
TBPA Na salt	25357-79-3
Tetrabromo phthalic anhydride	632-79-1

Nickel	CAS No. or JIG Substances Class. No. if no CAS
Nickel	7440-02-0

The use of nickel is required to be reported only if it is likely that skin has direct contact with nickel for a long time, such as an enclosure designed for a portable electronic device.

Phthalates	CAS No. or JIG Substances Class. No. if no CAS
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7
Dibutylphthalate (DBP)	84-74-2
Diisononyl phthalate (DINP)	28553-12-0
Diisodecyl phthalate (DIDP)	26761-40-0
Butyl benzyl phthalate (BBP)	85-68-7
Di-n-octyl phthalate (DNOP)	117-84-0

Selenium/Selenium Compounds	CAS No. or JIG Substances Class. No. if no CAS
Selenium	7782-49-2
Hydrogen selenide	7783-07-5
Sodium 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	A13997 - 9

Polyvinyl Chloride	CAS No. or JIG Substances Class. No. if no CAS
Polyvinyl Chloride (PVC)	9002-86-2

Formaldehyde	CAS No. or JIG Substances Class. No. if no CAS
Formaldehyde	50-00-0

Perfluorooctane sulfonate (PFOS) and its salts	CAS No. or JIG Substances Class. No. if no CAS
Potassium heptadecafluoro-1-octanesulfonate	2795-39-3
1-Octanesulphonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	307-35-7
2-Propenoic acid, 2-methyl-, 2-ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester	376-14-7
2-Propenoic acid, 2-butyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester	383-07-3

REACH SVHC	CAS No. or JIG Substances Class. No. if no CAS
Sodium dichromate, dihydrate	7789-12-0
Sodium dichromate anhydrate	10588-01-9
Bis(tributyltin)oxide (TBTO)	56-35-9
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
4,4'- Diaminodiphenylmethane (MDA)	101-77-9
Diarsenic pentoxide	1303-28-2
Diarsenic trioxide	1327-53-3
Triethyl arsenate	15606-95-8
Lead hydrogen arsenate	7784-40-9
Benzyl butyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Bis (2-ethylhexyl)phthalate(DEHP)	117-81-7
Anthracene, pure	120-12-7
Cobalt dichloride	7646-79-9
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
1,2,5,6,9,10-hexabromocyclododecane	3194-55-6
Hexabromocyclododecane (HBCDD)	25637-99-4
Alpha-hexabromocyclododecane	134237-50-6
Beta-hexabromocyclododecane	134237-51-7
Gamma-hexabromocyclododecane	134237-52-8