

Detailed Substance Lists with CAS Numbers

This list is made based on the "Exhibit 8: JIG Detailed Chemical Lists (with Metal Conversion Factor) quoted from Annex B of JIG-101 Ed 4.1 (Including substances added in IEC 62474 DB declarable substance list)". Any substances don't appear on it.

Note 1) :When each substance groups are metal and the compounds, the content is calculated using metal conversion factor.

Note 2) :If there is * in the column of Metal Conversion Factor, see Note) of 2) in "(5) Substance Information" of the text.

Note 3) :A ** in the same column as described above indicates that it is not possible to calculate the metal coefficient factor due to the structure of the applicable substance not being specified.

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	A05	Cadmium/cadmium compounds	Cadmium	1.000	7440-43-9
			Cadmium oxide	0.875	1306-19-0
			Cadmium sulphide	0.778	1306-23-6
			Cadmium chloride	0.613	10108-64-2
			Cadmium sulphate	0.539	10124-36-4
			Other cadmium compounds	—	—
Banned	A07	Chromium VI compounds	Chromium (VI) oxide	0.520	1333-82-0
			Barium chromate	0.205	10294-40-3
			Calcium chromate	0.333	13765-19-0
			Lead (II) chromate	0.161	7758-97-6
			Lead chromate molybdate sulphate red	* *	12656-85-8
			Lead sulfochromate yellow	* *	1344-37-2
			Sodium chromate	0.321	7775-11-3
			Sodium dichromate	0.397	10588-01-9
			Strontium chromate	0.255	7789-06-2
			Potassium dichromate	0.353	7778-50-9
			Potassium chromate	0.268	7789-00-6
			Zinc chromate	0.287	13530-65-9
			Pentazinc chromate octahydroxide	0.090	49663-84-5
			Potassium hydroxyoctaoxidizincate dichromate	0.250	11103-86-9
Other hexavalent chromium compounds	—	—			

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	A09	Lead/lead compounds	Lead	1.000	7439-92-1
			Lead(II) sulphate	0.683	7446-14-2
			Lead(II) carbonate	0.775	598-63-0
			Lead(II) chromate	0.641	7758-97-6
			Lead chromate molybdate sulphate red	* *	12656-85-8
			Lead hydroxidcarbonate	0.801	1319-46-6
			Lead acetate	0.637	301-04-2
			Lead (II) acetate, trihydrate	0.546	6080-56-4
			Lead phosphate	0.766	7446-27-7
			Lead selenide	0.724	12069-00-0
			Lead (IV) oxide	0.866	1309-60-0
			Lead (II,IV) oxide	0.907	1314-41-6
			Lead (II) sulphide	0.866	1314-87-0
			Lead (II) oxide	0.928	1317-36-8
			Lead(II) carbonate basic	0.801	1319-46-6
			Lead hydroxidcarbonate	0.801	1344-36-1
			Lead(II) phosphate	0.766	7446-27-7
			Lead sulfochromate yellow	* *	1344-37-2
			Lead(II) titanate	0.686	12060-00-3
			Lead sulphate,sulphuric acid, lead salt	1.000	15739-80-7
			Lead sulphate,tribasic	0.850	12202-17-4
Lead stearate	0.268	1072-35-1			
		Other lead compounds	—	—	
Banned	A10	Mercury/mercury compounds	Mercury	1.000	7439-97-6
			Mercuric chloride	—	33631-63-9
			Mercury (II) chloride	0.739	7487-94-7
			Mercuric sulphate	0.676	7783-35-9
			Mercuric nitrate	0.618	10045-94-0
			Mercuric (II) oxide	0.926	21908-53-2
			Mercuric sulfide	0.862	1344-48-5
		Other mercury compounds	—	—	
Banned	A11	Nickel	—	1.000	7440-02-0

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.			
Banned	A17	Tributyl Tin Oxide (TBTO)	—	0.398	56-35-9			
Banned	A28	Tri-substituted organostannic compounds	Triphenyltin=N, N-dimethyldithiocarbamate	0.252	1803-12-9			
			Triphenyltinfluoride	0.322	379-52-2			
			Triphenyltinacetate	0.290	900-95-8			
			Triphenyltinchloride	0.308	639-58-7			
			Triphenyltinhydroxide	0.323	76-87-9			
			Triphenyltin fattyacid((9-11)salt)	0.234	18380-71-7			
				0.234	18380-72-8			
				0.228	47672-31-1			
				0.222	94850-90-5			
			Triphenyltinchloroacetate	0.268	7094-94-2			
			Tributyltinmethacrylate	0.316	2155-70-6			
			Bis(tributyltin)fumalate	0.342	6454-35-9			
			Tributyltinfluoride	0.384	1983-10-4			
			Bis(tributyltin)2,3-dibromosuccinate	0.278	31732-71-5			
			Tributyltinacetate	0.340	56-36-0			
			Tributyltinlaurate	0.243	3090-36-6			
			Bis(tributyltin)phthalate	0.319	4782-29-0			
			Copolymer of alkyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	0.180	67772-01-4			
			Tributyltinsulphamate	0.307	6517-25-5			
			Bis(tributyltin)maleate	0.341	14275-57-1			
			Tributyltinchloride	0.365	1461-22-9, 7342-38-3			
			Tributyltin cyclopentane carbonate=mixture	* *	85409-17-2			
			Tributyltin-1, 2,3,4,4a, 4b, 5,6,10,10adecahydro-7-isopropyl-1, 4a-dimethyl-1-phenanthrenecarboxylatemix	* *	26239-64-5			
			Other tri-substituted organostannic compounds	—	—			
			Banned	A23	Dibutyltin (DBT) compounds	Dibutyltin oxide	0.477	818-08-6
						Dibutyltin diacetate	0.338	1067-33-0
Dibutyltin dilaurate	0.188	77-58-7						
Dibutyltin maleate	0.342	78-04-6						
Other dibutyltin compounds	—	—						
Banned	A24	Dioctyltin (DOT) compounds	Dioctyl Tin Oxide	0.329	870-08-6			
			Dioctyltin dilaurate	0.16	3648-18-8			
			Other Dioctyltin compounds	—	—			

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	B02	Polybrominated Biphenyls (PBBs)	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
			Nonabiphenyl	—	27753-52-2
Banned	B03	Polybrominated Diphenylethers (PBDEs)	Decabromobiphenyl	—	13654-09-6
			Bromodiphenyl ether	—	101-55-3
			Dibromodiphenyl ethers	—	2050-47-7
			Tribromodiphenyl ether	—	49690-94-0
			Tetrabromodiphenyl ethers	—	40088-47-9
			Pentabromodiphenyl ether	—	32534-81-9
			(note: Commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.)	—	32534-81-9
			Hexabromodiphenyl ether	—	36483-60-0
			Heptabromodiphenylether	—	68928-80-3
			Octabromodiphenyl ether	—	32536-52-0
Banned	B05	Polychlorinated Biphenyls (PCBs) and specific substitutes	Nonabromodiphenylether	—	63936-56-1
			Decabromodiphenyl ether	—	1163-19-5
			Polychlorinated Biphenyls (all isomers and congeners)	—	1336-36-3
			Monomethyl-tetrachloro-diphenylmethane (Ugilec 141)	—	76253-60-6
Banned	B15	Polychlorinated Terphenyls (PCTs)	Monomethyl-dichloro-diphenyl methane (Ugilec 121, Ugilec 21)	—	81161-70-8
			Monomethyl-dibromo-diphenyl methane (DBBT)	—	99688-47-8
			Polychlorinated Terphenyls (all isomers and congeners)	—	61788-33-8
Banned	B06	Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Polychlorinated Naphthalenes	—	70776-03-3
			Other polychlorinated Naphthalenes	—	—
Banned	B12	Perchlorates	Lithium perchlorate	—	7791-03-9
			Other perchlorate compounds	—	—
Banned	B13	Perfluorooctane sulfonate (PFOS)	Perfluorooctane Sulfonates (PFOS) C ₈ F ₁₇ SO ₂ X, where X = OR, NR or other derivative	—	—

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	B10	Fluorinated greenhouse gases (PFC, SF6, HFC)	Tetrafluoromethane (Carbon tetrafluoride, 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			
Banned	C01	Asbestos	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

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	C02	Azocolourants and azodyes which form certain aromatic amines	biphenyl-4-ylamine	—	92-67-1
			Benzidine	—	92-87-5
			4-chloro-o-toluidine	—	95-69-2
			2-naphthylamine	—	91-59-8
			o-aminoazotoluene	—	97-56-3
			5-nitro-o-toluidine	—	99-55-8
			4-chloroaniline	—	106-47-8
			4-methoxy-m-phenylenediamine	—	615-05-4
			4,4'-methylenedianiline	—	101-77-9
			3,3'-dichlorobenzidine	—	91-94-1
			3,3'-dimethoxybenzidine	—	119-90-4
			3,3'-dimethylbenzidine	—	119-93-7
			4,4'-methylenedi-o-toluidine	—	838-88-0
			6-methoxy-m-toluidine	—	120-71-8
			4,4'-methylene-bis(2-chloroaniline)	—	101-14-4
			4,4'-oxydianiline	—	101-80-4
			4,4'-thiodianiline	—	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			
Banned	C04	Ozone Depleting Substances	Trichlorofluoromethane (CFC-11)	—	75-69-4
			Dichlorodifluoromethane (CFC-12)	—	75-71-8
			Chlorotrifluoromethane (CFC-13)	—	75-72-9
			Pentachlorofluoroethane (CFC-111)	—	354-56-3
			Tetrachlorodifluoroethane (CFC-112)	—	76-12-0
			1,1,2,2-Tetrachloro-1,2-difluoroethane (CFC-112)	—	76-12-0
			1,1,1,2-Tetrachloro-2,2-difluoroethane (CFC-112a)	—	76-11-9
			Trichlorotrifluoroethane (CFC-113)	—	76-13-1,
			1,1,2-Trichloro-1,2,2 trifluoroethane (CFC-113)	—	76-13-1
			1,1,1-Trichloro-2,2,2 trifluoroethane (CFC-113a)	—	354-58-5
			Dichlorotetrafluoroethane (CFC-114)	—	76-14-2
			Monochloropentafluoroethane (CFC-115)	—	76-15-3
			Heptachlorofluoropropane (CFC-211)	—	422-78-6
			1,1,1,2,2,3,3-Heptachloro-3-fluoropropane (CFC-211aa)	—	135401-87-5
			1,1,1,2,3,3,3-Heptachloro-2-fluoropropane (CFC-211ba)	—	422-78-6
			1,1,1,2,3,3,3-Heptachloro-2-fluoropropane (CFC-211ba)	—	422-81-1
			Hexachlorodifluoropropane (CFC-212)	—	3182-26-1
			Pentachlorotrifluoropropane (CFC-213)	—	2354-06-5
			Pentachlorotrifluoropropane (CFC-213)	—	134237-31-3
			Tetrachlorotetrafluoropropane (CFC-214)	—	29255-31-0
1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane (CFC-214aa)	—	2268-46-4			
1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane (CFC-214cb)	—	—			

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	C04	Ozone Depleting Substances (cnt'd)	Trichloropentafluoropropane (CFC-215)	—	1599-41-3
			1,2,2-Trichloropentafluoropropane (CFC-215aa)	—	1599-41-3
			1,2,3-Trichloropentafluoropropane (CFC-215ba)	—	76-17-5
			1,1,2-Trichloropentafluoropropane (CFC-215bb)	—	—
			1,1,3-Trichloropentafluoropropane (CFC-215ca)	—	—
			1,1,1-Trichloropentafluoropropane (CFC-215cb)	—	4259-43-2
			Dichlorohexafluoropropane (CFC-216)	—	661-97-2
			Chloroheptafluoropropane (CFC-217)	—	422-86-6
			Bromochloromethane (Halon-1011)	—	74-97-5
			Dibromodifluoromethane (Halon-1202)	—	75-61-6
			Bromochlorodifluoromethane (Halon-1211)	—	353-59-3
			Bromotrifluoromethane (Halon-1301)	—	75-63-8
			Dibromotetrafluoroethane (Halon-2402)	—	124-73-2
			Tetrachloromethane (carbon tetrachloride)	—	56-23-5
			1,1,1-Trichloroethane (methylchloroform)	—	71-55-6
			Bromomethane (methyl bromide)	—	74-83-9
			Bromoethane (ethyl bromide)	—	74-96-4
			1-Bromopropane (n-propyl bromide)	—	106-94-5
			Trifluoriodomethane (trifluoromethyl iodide)	—	2314-97-8
			Chloromethane (methyl chloride)	—	74-87-3
			Dibromofluoromethane (HBFC-21 B2)	—	1868-53-7
			Bromodifluoromethane (HBFC-22 B1)	—	1511-62-2
			Bromofluoromethane (HBFC-31 B1)	—	373-52-4
			Tetrabromofluoroethane (HBFC-121B4)	—	306-80-9
			Tribromodifluoroethane (HBFC-122 B3)	—	—
			Dibromotrifluoroethane (HBFC-123 B2)	—	354-04-1
			Bromotetrafluoroethane (HBFC-124 B1)	—	124-72-1
			Tribromofluoroethane (HBFC-131 B3)	—	—
			Dibromodifluoroethane (HBFC-132 B2)	—	75-82-1
			Bromotrifluoroethane (HBFC-133 B1)	—	421-06-7
			Dibromofluoroethane (HBFC-141 B2)	—	358-97-4
			Bromodifluoroethane (HBFC-142 B1)	—	420-47-3
			Bromofluoroethane (HBFC-151 B1)	—	762-49-2
			Hexabromofluoropropane (HBFC-221B6)	—	—
			Pentabromodifluoropropane (HBFC-222 B5)	—	—
			Tetrabromotrifluoropropane (HBFC-223 B4)	—	—
			Tribromotetrafluoropropane (HBFC-224 B3)	—	—
			Dibromopentafluoropropane (HBFC-225 B2)	—	431-78-7
			Bromohexafluoropropane (HBFC-226 B1)	—	2252-78-0
			Pentabromofluoropropane (HBFC-231 B5)	—	—
Tetrabromodifluoropropane (HBFC-232 B4)	—	—			
Tribromotrifluoropropane (HBFC-233 B3)	—	—			
Dibromotetrafluoropropane (HBFC-234 B2)	—	—			
Bromopentafluoropropane (HBFC-235 B1)	—	460-88-8			

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	C04	Ozone Depleting Substances (cnt'd)	Tetrabromofluoropropane (HBFC-241 B4)	—	—
			Tribromodifluoropropane (HBFC-242 B3)	—	70192-80-2
			Dibromotrifluoropropane (HBFC-243 B2)	—	431-21-0
			Bromotetrafluoropropane (HBFC-244 B1)	—	679-84-5
			Tribromofluoropropane (HBFC-251 B3)	—	75372-14-4
			Dibromodifluoropropane (HBFC-252 B2)	—	460-25-3
			Bromotrifluoropropane (HBFC-253 B1)	—	421-46-5
			Dibromofluoropropane (HBFC-261 B2)	—	51584-26-0
			Bromodifluoropropane (HBFC-262 B1)	—	—
			Bromofluoropropane (HBFC-271 B1)	—	1871-72-3
			Dichlorofluoromethane (HCFC-21)	—	75-43-4
			Chlorodifluoromethane (HCFC-22)	—	75-45-6
			Chlorofluoromethane (HCFC-31)	—	593-70-4
			Tetrachlorofluoroethane (HCFC-121)	—	134237-32-4
			1,1,2,2-Tetrachloro-1-fluoroethane (HCFC-121)	—	354-14-3
			1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	—	354-11-0
			Trichlorodifluoroethane (HCFC-122)	—	41834-16-6
			1,2,2-Trichloro-1,1-difluoroethane (HCFC-122)	—	354-21-2
			1,1,2-Trichloro-1,2-difluoroethane (HCFC-122a)	—	354-15-4
			1,1,1-Trichloro-2,2-difluoroethane (HCFC-122b)	—	354-12-1
			Dichlorotrifluoroethane (HCFC-123)	—	34077-87-7
			1,1-Dichloro-2,2,2-trifluoroethane (HCFC-123)	—	306-83-2
			1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	—	354-23-4
			1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	—	90454-18-5
			Chlorotetrafluoroethane (HCFC-124)	—	812-04-4
			2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	—	63938-10-3
			1-chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	—	2837-89-0
			Trichlorofluoroethane (HCFC-131)	—	354-25-6
			1,1,2-Trichloro-2-fluoroethane (HCFC-131)	—	27154-33-2; (134237-34-6)
			1,1,2-Trichloro-1-fluoroethane (HCFC-131a)	—	359-28-4
			1,1,1-Trichloro-2-fluoroethane (HCFC-131b)	—	811-95-0
			Dichlorodifluoroethane (HCFC-132)	—	2366-36-1
			1,2-Dichloro-1,2-difluoroethane (HCFC-132)	—	25915-78-0
			1,1-Dichloro-2,2-difluoroethane (HCFC-132a)	—	431-06-1
			1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	—	471-43-2
			1,1-Dichloro-1,2-difluoroethane (HCFC-132c)	—	1649-08-7
Chlorotrifluoroethane (HCFC-133)	—	1842-05-3			
1-Chloro-1,2,2-trifluoroethane (HCFC-133)	—	1330-45-6			
2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	—	431-07-2			
1-Chloro-1,1,2-trifluoroethane (HCFC-133b)	—	1330-45-6			
					75-88-7
					421-04-5

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.		
Banned	C04	Ozone Depleting Substances (cnt'd)	Dichlorofluoroethane(HCFC-141)	—	1717-00-6;		
			1,2-Dichloro-1-fluoroethane (HCFC-141)	—	(25167-88-8)		
				—	430-57-9		
					1,1-Dichloro-2-fluoroethane (HCFC-141a)	—	430-53-5
					1,1-Dichloro-1-fluoroethane (HCFC-141b)	—	1717-00-6
					Chlorodifluoroethane (HCFC-142)	—	25497-29-4
					2-Chloro-1,1-Difluoroethane (HCFC-142)	—	338-65-8
					1-Chloro-1,1-difluoroethane (HCFC-142b)	—	75-68-3
					1-Chloro-1,2-difluoroethane (HCFC-142a)	—	338-64-7
					Chlorofluoroethane (HCFC-151)	—	110587-14-9
					1-Chloro-2-fluoroethane (HCFC-151)	—	762-50-5
					1-Chloro-1-fluoroethane (HCFC-151a)	—	1615-75-4
					Hexachlorofluoropropane (HCFC-221)	—	134237-35-7
						—	29470-94-8
					1,1,1,2,2,3-Hexachloro-3-fluoropropane (HCFC-221ab)	—	422-26-4
					Pentachlorodifluoropropane (HCFC-222)	—	134237-36-8
					1,1,1,3,3-pentachloro-2,2-difluoropropane (HCFC-222ca))	—	422-49-1
					1,2,2,3,3-pentachloro-1,1-difluoropropane (HCFC-222aa)	—	422-30-0
					Tetrachlorotrifluoropropane (HCFC-223)	—	134237-37-9
					1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223ca)	—	422-52-6
					1,1,1,3-Tetrachloro-2,2,3-trifluoropropane (HCFC-223cb)	—	422-50-4
					Trichlorotetrafluoropropane (HCFC-224)	—	134237-38-0
					1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	—	422-54-8
					1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)	—	422-53-7
					1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	—	422-51-5
					Dichloropentafluoropropane (HCFC-225)	—	127564-92-5
					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			
		2-Chloro-1,1,1,3,3,3-hexafluoropropane (HCFC-226da)	—	431-87-8			
		Pentachlorofluoropropane (HCFC-231)	—	134190-48-0			
		1,1,1,2,3-pentachloro-2-fluoro-propane (HCFC-231bb)	—	421-94-3			
		Tetrachlorodifluoropropane (HCFC-232)	—	134237-39-1			
		1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC-232fc)	—	460-89-9			
		Trichlorotrifluoropropane (HCFC-233)	—	134237-40-4			
		1,1,1-Trichloro-3,3,3-trifluoropropane (HCFC-233fb)	—	7125-83-9			

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	C04	Ozone Depleting Substances (cnt'd)	Dichlorotetrafluoropropane (HCFC-234)	—	127564-83-4
			1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234db)	—	425-94-5
			Chloropentafluoropropane (HCFC-235)	—	134237-41-5
			1-Chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	—	460-92-4
			Tetrachlorofluoropropane (HCFC-241)	—	134190-49-1
			1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241db)	—	666-27-3
			Trichlorodifluoropropane (HCFC-242)	—	134237-42-6
			1,3,3,Trichloro-1,1-difluoropropane (HCFC-242fa)	—	460-63-9
			Dichlorotrifluoropropane (HCFC-243)	—	134237-43-7
			1,1-Dichloro-1,2,2-trifluoropropane (HCFC-243cc)	—	7125-99-7
			2,3-Dichloro-1,1,1-trifluoropropane (HCFC-243db)	—	338-75-0
			3,3-Dichloro-1,1,1-trifluoropropane (HCFC-243fa)	—	460-69-5
			Chlorotetrafluoropropane (HCFC-244)	—	134190-50-4
			3-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244ca)	—	679-85-6
			1-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244cc)	—	421-75-0
			Trichlorofluoropropane (HCFC-251)	—	134190-51-5
			1,1,3-Trichloro-1-fluoropropane (HCFC-251fb)	—	818-99-5
			1,1,2-Trichloro-1-fluoropropane (HCFC-251dc)	—	421-41-0
			Dichlorodifluoropropane (HCFC-252)	—	134190-52-6
			1,3-Dichloro-1,1-difluoropropane (HCFC-252fb)	—	819-00-1
			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 (HCFC-261fc)	—	7799-56-6
			1,2-Dichloro-2-fluoro-propene (HCFC-261ba)	—	420-97-3
			Chlorodifluoropropane (HCFC-262)	—	134190-53-7
			1-Chloro-2,2-difluoropropane (HCFC-262ca)	—	420-99-5
2-Chloro-1,3-difluoropropane (HCFC-262da)	—	102738-79-4			
1-Chloro-1,1-difluoropropane (HCFC-262fc)	—	421-02-3			
Chlorofluoropropane (HCFC-271)	—	134190-54-8			
2-Chloro-2-fluoropropane (HCFC-271ba)	—	420-44-0			
1-Chloro-1-fluoropropane (HCFC-271fb)	—	430-55-7			
Banned	C06	Radioactive substances	Uranium-238	—	7440-61-1
			Radon	—	10043-92-2
			Americium-241	—	14596-10-2
			Thorium-232	—	7440-29-1
			Cesium-137	—	10045-97-3
			Strontium-90	—	10098-97-2
			Other radioactive substances	—	—
Banned	C07	Formaldehyde	—	—	50-00-0
Banned	C08	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	—	—	3846-71-7

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	C09	Selected Phthalates Group 1 (BBP, DBP, DEHP)	Butyl benzyl phthalate (BBP)	—	85-68-7
			Dibutylphthalate (DBP)	—	84-74-2
			Bis (2-ethylhexyl) phthalate (DEHP)	—	117-81-7
Banned	C10	Selected Phthalates Group 2 (DIDP, DINP, DNOP)	1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)	—	26761-40-0 68515-49-1
			Diisononyl phthalate (DINP)	—	28553-12-0 68515-48-0
			Di-n-octyl phthalate (DNOP)	—	117-84-0
Banned	C11	Dimethyl fumarate	—	—	624-49-7
Banned	A20	Diarsenic Pentoxide	—	*	1303-28-2
Banned	A21	Diarsenic Trioxide	—	*	1327-53-3
Banned	B11	Hexabromocyclododecane(HBCDD) and all major diastereoisomers	Hexabromocyclododecane (HBCDD)	—	25637-99-4
			1,2,5,6,9,10-Hexabromocyclododecane	—	3194-55-6
			alpha-hexabromocyclododecane	—	134237-50-6
			beta-hexabromocyclododecane	—	134237-51-7
			gamma-hexabromocyclododecane	—	134237-52-8
Banned	B09	Shortchain Chlorinated Paraffins (C10 – C13)	Alkanes, C10-13, chloro	—	85535-84-8
			Alkanes, C10-12, chloro	—	108171-26-2
			Alkanes, C12-13, chloro	—	71011-12-6
			Alkanes, chloro	—	61788-76-9
			Other Short Chain Chlorinated Paraffins	—	—
Banned	B16	Tris(2-chloroethyl) phosphate (TCEP)	—	—	115-96-8
Banned	A25	Lead chromate	—	*	7758-97-6
Banned	A26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	—	*	12656-85-8
Banned	A27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	—	*	1344-37-2
Banned	A29	Strontium chromate	—	*	7789-06-2
Banned	A30	Potassium hydroxyoctaoxodizincate dichromate	—	*	11103-86-9
Banned	A31	Pentazinc chromate octahydroxide	—	*	49663-84-5
Banned	B23	Decabromodiphenyl ether	—	—	1163-19-5
Banned	A48	Sulfurous acid, lead salt, dibasic	—	*	62229-08-7
Banned	A49	Trilead dioxide phosphonate	—	*	12141-20-7
Banned	C40	4-Aminoazobenzene	—	—	60-09-3
Banned	A50	Tetralead trioxide sulfate	—	*	12202-17-4
Banned	A51	Orange lead (lead tetroxide)	—	*	1314-41-6
Banned	A52	Pyrochlore, antimony lead yellow	—	*	8012-00-8
Banned	A53	Pentalead tetraoxide sulphate	—	*	12065-90-6
Banned	A54	Dibutyltin dichloride (DBTC)	—	*	683-18-1
Banned	A55	Lead cynamidate	—	*	20837-86-9
Banned	A56	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	—	*	68784-75-8
Banned	A57	Lead titanium trioxide	—	*	12060-00-3
Banned	A58	Lead titanium zirconium oxide	—	*	12626-81-2
Banned	A59	Lead oxide sulfate	—	*	12036-76-9
Banned	A60	[Phthalato(2-)]dioxotrilead	—	*	69011-06-9

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Banned	A61	Dioxobis(stearato)trilead	—	*	12578-12-0
Banned	A62	Fatty acids, C16-18, lead salts	—	*	91031-62-8
Banned	A63	Lead dinitrate	—	*	10099-74-8
Banned	—	Cadmium oxide	—	0.875	1306-19-0
Banned	—	Pentadecafluorooctanoic acid (PFOA)	—	—	335-67-1
Banned	—	Ammonium pentadecafluorooctanoate (APFO)	—	—	3825-26-1
Banned	—	Cadmium sulphide	—	0.778	1306-23-6
Banned	C12	Bis (2-ethylhexyl) phthalate (DEHP)	—	—	117-81-7
Banned	C13	Dibutylphthalate (DBP)	—	—	84-74-2
Banned	C14	Butyl benzyl phthalate (BBP)	—	—	85-68-7
Banned	C15	Diisobutyl phthalate (DIBP)	—	—	84-69-5
Controlled	A19	Beryllium Oxide (BeO)	—	—	1304-56-9
Controlled	B08	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14)[Aliphatic/alicyclic brominated compounds]	—	—
			Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15)[Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	—	—
			Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16)[Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	—	—
			Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17)[Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls] in combination with antimony compounds]	—	—
			Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22)[Aliphatic/alicyclic chlorinated and brominated compounds]	—	—
			Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42)[Brominated organic phosphorus compounds]	—	—
			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-epichlorhydrin oligomer	—	40039-93-8
			TBBA-TBBA-diglycidyl-ether oligomer	—	70682-74-5
			TBBA carbonate oligomer	—	28906-13-0
			TBBA carbonate oligomer, phenoxy end capped	—	94344-64-2
TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	—	71342-77-3			
TBBA-bisphenol A-phosgene polymer	—	32844-27-2			

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Controlled	B08	Brominated flame retardants (other than PBBs,PBDEs, or HBCDD) (con'd)	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
			Bis(2-ethylhexyl)tetrabromo-phthalate	—	26040-51-7
			2-Hydroxy-propyl-2-(2-hydroxyethoxy)-ethyl-TBP	—	20566-35-2
			TBPA, glycol-and propylene-oxide esters	—	75790-69-1
			N,N'-Ethylene -bis-(tetrabromophthalimide)	—	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
			Dibromo-neopentyl-glycol	—	3296-90-0
			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
			Bromo-/Chloro-paraffins	—	68955-41-9
			Bromo-/Chloro-alpha-olefin	—	82600-56-4
			Vinylbromide	—	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
			Tribromo-bisphenyl-maleinimide	—	59789-51-4
			Tetrabromo-chyclo-octane	—	31454-48-5
1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	—	3322-93-8			
TBPA Na salt	—	25357-79-3			

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Controlled	B08	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) (con'd)	Tetrabromo phthalic anhydride	—	632-79-1
			Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	—	155613-93-7
			Other Brominated Flame Retardants	—	—
Controlled	B18	Chlorinated flame retardants	Tetrakis(2-chloroethyl) dichloroisopentyldiphosphate	—	38051-10-4
			Tris(1-chloro-2-propyl)phosphate	—	13674-84-5
			Tris(2,3-dichloro-1-propyl)phosphate	—	66108-37-0
Controlled	B19	Polyvinyl Chloride (PVC) and PVC Copolymers	Polyvinyl chloride (PVC)	—	9002-86-2
			Other Polyvinyl chlorides	—	—
			PVC Copolymers	—	—
Controlled	C47	Di-isodecyl phthalate (DIDP)	—	—	68515-49-1 26761-40-0
Controlled	C48	Di-n-hexyl Phthalate (DnHP)	—	—	84-75-3
Controlled	A22	Cobalt dichloride (CoCl ₂)	—	*	7646-79-9
Controlled	C16	Refractory Ceramic Fibres, Aluminosilicate	are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfill the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	—	—
Controlled	C17	Refractory Ceramic Fibres, Zirconia Aluminosilicate	are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfill the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	—	—
Controlled	C18	Boric acid	—	—	10043-35-3
			—	—	11113-50-1

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Controlled	C19	Disodium tetraborate, anhydrous	Disodium tetraborate decahydrate	—	1303-96-4
			Disodium tetraborate, anhydrous	—	1330-43-4
			Disodium tetraborate, pentahydrate	—	12179-04-3
Controlled	C20	Tetraboron disodium heptaoxide, hydrate	—	—	12267-73-1
Controlled	C21	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	—	—	71888-89-6
Controlled	C22	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	—	—	68515-42-4
Controlled	B17	4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	—	—	548-62-9
Controlled	B20	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	—	—	101-14-4
Controlled	C23	Bis(2-methoxyethyl) phthalate	—	—	117-82-8
Controlled	C24	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	—	—	140-66-9
Controlled	C25	Bis(2-methoxyethyl) ether	—	—	111-96-6
Controlled	C26	N,N-dimethylacetamide (DMAC)	—	—	127-19-5
Controlled	C38	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	—	—	112-49-2
Controlled	C39	1,2-dimethoxyethane; ethyleneglycol dimethyl ether (EGDME)	—	—	110-71-4
Controlled	C41	1,2-Diethoxyethane	—	—	629-14-1
Controlled	C42	Diboron trioxide	—	—	1303-86-2
Controlled	C43	N,N-dimethylformamide	—	—	68-12-2
Controlled	C44	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	—	—	84777-06-0
Controlled	C45	Diisopentylphthalate (DIPP)	—	—	605-50-5
Controlled	C46	N-pentyl-isopentylphthalate	—	—	776297-69-9
Controlled	—	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	Methylhexahydrophthalic anhydride	—	25550-51-0
			Hexahydro-4-methylphthalic anhydride	—	19438-60-9
			Hexahydro-1-methylphthalic anhydride	—	48122-14-1
			Hexahydro-3-methylphthalic anhydride	—	57110-29-9
Controlled	—	Dipentyl phthalate (DPP)	—	—	131-18-0
Controlled	—	4-Nonylphenol, branched and linear,	—	—	-
Controlled	—	Trixylyl phosphate	—	—	25155-23-1
Controlled	—	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	—	—	573-58-0
Controlled	—	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	—	—	96-45-7
Controlled	—	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	—	—	68515-50-4
Controlled	—	Diisononyl phthalate (DINP)	—	—	28553-12-0
			—	—	68515-48-0

Classification	JGPSSI Classification No.	Substance Group	Substance name	Metal Conversion Factor	CAS No.
Controlled	—	Polycyclic aromatic hydrocarbon (PAH)	Benzo(a)pyren	—	50-32-8
			Benzo(e)pyren	—	192-97-2
			Benzo(a)anthracene	—	56-55-3
			Chrysene	—	218-01-9
			Benzo(b)fluoranthene	—	205-99-2
			Benzo(i)fluoranthene	—	205-82-3
			Benzo(k)fluoranthene	—	207-08-9
Controlled	—	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	—	—	1937-37-7
Controlled	—	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	—	—	68921-45-9
Controlled	—	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	—	—	15571-58-1
Controlled	—	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	—	—	—
Controlled	—	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	—	—	25973-55-1
Controlled	—	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	—	—	68515-51-5 68648-93-1
Controlled	—	Nitrobenzene	—	—	98-95-3
Controlled	—	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	—	—	3864-99-1
Controlled	—	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	—	—	36437-37-3
Controlled	—	1,3-propanesultone	—	—	1120-71-4
Controlled	—	Perfluorononan-1-oic-acid and its sodium and ammonium salts	Heptadecafluorononanoic Acid	—	375-95-1
			Sodium heptadecafluorononanoate	—	21049-39-8
			Ammonium perfluorononanoate	—	4149-60-4