

Appendix Table 1 List of Prohibited Substances

No.	CAS No.	Agent group or substance name (Japanese)	Agent group or substance name English	International treaty			EU legislation		Japanese legislation				Remark	Main applications (Source: NITE Chemical Risk Information Platform of National Institute of Technology and Evaluation (NITE) and GHS model SDS information of Japan Advanced Information center of Safety and Health)	
				Montreal Protocol on Substances that Deplete the Ozone Layer	Minamata Convention on Mercury	Rotterdam Convention on the Prior Informed Consent (PIC) Procedure for Certain Hazardous Chemicals and Pesticides in International Trade (Annex I/Industrial chemicals)	Stockholm Convention on Persistent Organic Pollutants (Annex A/B/C)	Regulation of substances that deplete the ozone layer (EC No.2037/2000)	Regulation concerning Persistent Organic Pollutants (POPs) (EC No.850/2004)	REACH ANNEX17	Regulation concerning Persistent Organic Pollutants (POPs) (EC No.850/2004)	Prohibited substances in Building Standards Law			Prohibited substances in Industrial Safety and Health Law
1	See App. Table.1-2	クロロフルオロカーボン (CFC)	Chlorofluorocarbon(CFC)	✓				✓							Coolant, organic synthetic raw material, fire extinguishing agent, foaming agent, cleaning agent
2	See App. Table.1-2	ハロゲン	halon	✓						✓					Fire extinguishing agent
3	56-23-5	四塩化炭素	Methane, tetrachloro-	✓						✓					Freon gas, raw material of agricultural chemical, reagent
4	71-55-6	1,1,1-トリクロロエタン (別名: メチルクロロホルム)	Ethane, 1,1,1-trichloro-	✓						✓					Reagent, synthetic raw material (raw material of CFC substitutes)
5	See App. Table.1-2	ハイドロフルオロフルオロカーボン (HFBC)	Hydrobromofluorocarbon (HFBC)	✓				✓							Fire extinguishing agent
6	74-97-5	ブロモクロロメタン	Methane, bromochloro-	✓				✓							Organic synthesis solvent and intermediate, for fire extinguishing agent
7	74-83-9	臭化メチル	Methane, bromo-	✓				✓							Organic bromide, raw material of organic synthesis, fumigant for food, agricultural chemical (pesticide)
8	See App. Table.1-2	アスベスト類	Asbestos			✓			✓		✓				Friction material, gasket, heat insulation material, heat retaining material, brake lining, extrusion cement board, decorative slate for housing roof, fiber
9	See App. Table.1-2	ポリ塩化ジフェニル (PCB)	Polychlorinated biphenyls (PCB)			✓	A-C	✓				✓			Insulation oil for transformer capacitor and stabilizer, heat medium
10	See App. Table.1-2	ポリ塩化ナフthalen (PCN)	Polychlorinated naphthalenes (PCN) Polychlorinated terphenyls (PCT)				A-C	✓				✓			CAS.70776-03-3 is applicable from 2021/4/1.
11	118-74-1	ヘキサクロロベンゼン(HCB)	Benzene, hexachloro-				A-C	✓				✓			Disinfectant (for seeds), raw material of organic synthesis
12	309-00-2	アルドリン	aldrin				A	✓				✓			Pesticide
13	60-57-1	ディルドリン	dieldrin				A	✓				✓			Pesticide
14	72-20-8	エンドリン	endrin				A	✓				✓			Pesticide
15	50-29-3	1,1,1-トリクロロ-2,2-ビス(4-クロロフェニル)エタン (DDT)	Dichloro Diphenyl Trichloroethane(D D T)				B	✓				✓			Pesticide
16	See App. Table.1-2	クロルデン類	Chlordane, pur				A	✓				✓			Organochlorine pesticide
17	See App. Table.1-2	トリブチルスズ化合物	Tributyl tin compounds			✓						✓			Wood preservative, ship-bottom paint, antifouling agent for fishing nets, disinfectant/fungicide
18	See App. Table.1-2	フェニレンジアミン類	1,4-Benzenediamine, N,N'-bis(methylphenyl)-									✓			Organic rubber chemical (age resistor)
19	732-26-3	2,4,6-トリ-tert-ブチルフェノール	Phenol, 2-(2-hydroxy-1,1-dimethylethyl)-									✓			Anti-oxidant and other modifiers (only those for lubricants or fuel oils)
20	8001-35-2	トキサフェン	Toxaphene				A	✓				✓			Pesticide
21	2385-85-5	マイレックス	dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane				A	✓				✓			Pesticide
22	115-32-2 10606-46-9 *	カルゼン (別名: ジコホル)	dicofol				A	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.
23	87-68-3	ヘキサクロロブタジエン(HCBD)	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-				A-C	✓				✓			Solvent
24	3846-71-7	2-(2H-1,2,3-オキサゾリ-6-2-yl)-4,6-ビス(1,1-ジメチルエチル)フェノール	Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-									✓			Ultraviolet absorber
25	542-88-1	ビス(クロロメチル)エーテル	Methane, oxybis(chloro-									✓			*Content of 1% or more is prohibited by the Industrial Safety and Health Act (Japan).
26	92-67-1 See App. Table.1-2	4-アミノビスフェニル(別名:4-アミノジフェニル)及び塩類	Biphenyl-4-ylamine Biphenyl-4-ylamine salts					✓				✓			*Content of 1% or more is prohibited by the Industrial Safety and Health Act (Japan). *REACH regulation Annex17 (Europe) Entry15 prohibits content of 0.1% or more (marketing / use).
27	91-59-8 See App. Table.1-2	β-ナフチルアミン及びその塩	2-Naphthalenamine 2-Naphthalenamine salts					✓				✓			*Content of 1% or more is prohibited by the Industrial Safety and Health Act (Japan). *REACH regulation Annex17 (Europe) Entry12 prohibits content of 0.1% or more (marketing / use).
28	92-93-3 詳細はSee App. Table.1-2	4-ニトロフェニル(別名:4-ニトロジフェニル)及び塩類	4-nitrobiphenyl 4-nitrobiphenyl salts					✓				✓			*Content of 1% or more is prohibited by the Industrial Safety and Health Act (Japan). *REACH regulation Annex17 (Europe) Entry14 prohibits content of 0.1% or more (marketing / use).
29	92-87-5 See App. Table.1-2	ベンジジン及びその塩	[1,1'-Biphenyl]-4,4'-diamine [1,1'-Biphenyl]-4,4'-diamine salts					✓				✓			*Content of 1% or more is prohibited by the Industrial Safety and Health Act (Japan). *REACH regulation Annex17 (Europe) Entry13 prohibits content of 0.1% or more (marketing / use).
30	2921-88-2	チオリン酸 O、O-ジエチル-O-(3,5,6-トリクロロ-2-ピリジン)エステル (別名: クロロピリン)	Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester									✓			Agricultural chemical, repellent for ants
31	See App. Table.1-2	パーフルオロオクタンスルホン酸(P F O S)またはその塩	Perfluorooctanesulfonic Acid			✓	B	✓				✓			Dispersing agent, water and oil repellent, surfactant
32	See App. Table.1-2	パーフルオロオクタンスルホン酸フルオライド(P F O S F)	Perfluoro-n-octanesulfonyl Fluoride			✓	B	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.
33	608-93-5	ペンタクロロベンゼン(PeCB)	Pentachlorobenzene				A-C	✓				✓			Agricultural chemical
34	319-84-6	α-ヘキサクロロシクロヘキサン	alpha-Hexachlorocyclohexane				A	✓				✓			By-product of lindane (manufacturing, use, etc. prohibited)
35	319-85-7	β-ヘキサクロロシクロヘキサン	beta-Hexachlorocyclohexane				A	✓				✓			By-product of lindane (manufacturing, use, etc. prohibited)
36	58-89-9	γ-ヘキサクロロシクロヘキサン (別名: シラリン)	gamma-Hexachlorocyclohexane				A	✓				✓			Pesticide (chemicals whose sales is prohibited)
37	143-50-0	クロルデコン (別名: ケポネ)	Chlordecone (Kepone)				A	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.
38	3635-01-8 2788-07-7 * 13654-09-6 * See App. Table.1-2	ポリ臭化ジフェニル (P B B)	Polybrominated Biphenyls (PBBs)			✓	A	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.
39	40088-47-9 5436-43-1 *	テトラブロモジフェニルエーテル (tetraBDE)	Tetrabromodiphenyl ether			✓	A	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.
40	32534-81-9 60348-60-9 *	ペンタブロモジフェニルエーテル (pentaBDE)	Pentabromodiphenyl ether			✓	A	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.
41	36483-60-0 68631-49-2 * 207122-15-4 *	ヘキサブロモジフェニルエーテル	Hexabromodiphenyl ether			✓	A	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.
42	68928-80-3 207122-16-5 * 446255-22-7 *	ヘプタブロモジフェニルエーテル	Heptabromodiphenyl ether			✓	A	✓				✓			Fire retardant material
43	115-29-7 959-98-8 33213-65-9 See App. Table.1-2	エンドスルファン又はベンゾエピン	Endosulfan alpha-Benzoepin beta-Benzoepin				A	✓				✓			Agricultural chemical (pesticide)
44	See App. Table.1-2	ヘキサブロモシクロドデカン(HBCD)	Hexabromocyclododecane(HBCD)				A	✓				✓			*CAS.3194-57-8 is applicable from 2021/4/1.
45	87-86-5 131-52-2 27735-64-4 3772-94-9 1825-21-4 * See App. Table.1-2	ペンタクロロフェノール又はその塩類(ハステル(PCP))	Pentachlorophenol(PCP)				A	✓				✓			*Substances marked with * in the CAS number in Appendix 1-2 are applicable from 2021/4/1.

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				Montreal Protocol on Substances that Deplete the Ozone Layer	Minamata Convention on Mercury	Rotterdam Convention on the Prior Informed Consent (PIC) Procedure for Pesticides in International Trade Annex III (Industrial chemicals)	Stockholm Convention on Persistent Organic Pollutants (POPs)	Regulation concerning Persistent Organic Pollutants (POP)s EC No.850/2004	REACH/ANNEX 17	Prohibited substances in Building Standards law	Prohibited substances in Industrial Safety and Health Law	Abolished substances in Ozone Layer Protection Law		
46	See App. Table. 1-2	短鎖型塩化パラフィン(C10-C13) (SCCPs)	Short chain chlorinated paraffins (C10-13) (SCCPs)			✓	A					✓		Fire retarding material, Metalworking oil
47	1163-19-5	デカブロモジフェニールエーテル (decaBDE)	Decabromodiphenyl ether (decaBDE)				A					✓		Fire retarding material
48	See App. Table. 1-2	ペルフルオロオクタノ酸 (PFOA) とその塩	Perfluorooctanoic acid (PFOA), its salts				A		✓			✓	-Applicable from 2021/10/22.	Fluoropolymer processing aids, surfactants, etc.
49	See App. Table. 1-2	炭素原子に結合するベンゼン環にアルキル基（アルキル基の炭素数7のものに限る。）を含む化合物（略称：PFOA関連物質）	PFOA-related compounds				A		✓			Schedule d	-Applicable from 2022/3/1(scheduled).	Fluoropolymer processing aids, surfactants, etc.
50	61788-33-8	ポリ塩化テルフェニル (PCT)	Polychlorinated Terphenyls (PCTs)			✓								Fire retarding material
51	78-00-2	4エチル鉛	Tetraethyl lead			✓								Antiknock agent (gasoline octane number improver)
52	75-74-1	4メチル鉛	Tetramethyl lead			✓								Antiknock agent (gasoline octane number improver)
53	126-72-7	トリス(2,3-ジブロモプロピル)ホスファイト	Tris(2,3 dibromopropyl)phosphate			✓								Fire retarding material
54	7439-97-6 etc.	水銀及び水銀化合物（無機水銀化合物、アルキル水銀化合物、アルキルオキシアルキル及びアルキル水銀化合物を含む。）	Mercury compounds, including inorganic mercury compounds, alkyl mercury compounds and aryl mercury compounds	✓		Pesticides							-According to the applicable conditions specified in Annex A of the Minamata Convention.	For dry batteries, mercury salt raw materials, measuring instruments, for amalgam, for sodium hydroxide production electrolysis
55	See App. Table. 1-2	ハイドロクロロフルオロカーボン (HCFC)	Hydrochlorofluorocarbon (HCFC)	✓						✓				Refrigerant, cleaning agent, foaming agent
56	See App. Table. 1-2	ペルフルオロヘキサンスルホン酸 (PFHxS) とその塩及びPFHxS関連物質	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) and its salts and PFHxS-related substances				A	✓				✓	Enforcement of Class 1 specified chemical substances June 1, 2024 (Scheduled) (EU/2023/1608: Effective on August 28, 2023)	Foam fire extinguishing agents, metal plating, textiles, leather products and interior decorations, abrasives and cleaning agents, coatings, manufacturing of electronic devices and semiconductors.
57	25973-55-1	2-(2H-1,2,3-ベンゾトリアゾール-2-イル)-4,6-ビス(2-メチルブタン-2-イル)フェノール (別名: UV-328)	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-bis(2-methylbutan-2-yl)phenol (UV-328)				A	✓				✓		Ultraviolet absorber
58	13560-89-9等	1,2,3,4,7,8,9,10,11,13,14,14,14-テトラカドクロロ-1,4,4a,5,6,6a,7,10,10a,11,12,12a-ジフルオロ-1,4,7,10-ジメチルジベンゾ[a,e]8アンナレーン (別名: テクロラントラフス)	1,1,1,1,2,2,2,2,3,3,3,3,4,4,4,4-tetrachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-difluoro-1,4,7,10-dimethanodibenzo[a,e]8annulene (TetraChloroFluoro)				A	✓				✓		Fire retarding material

* The following shows official names of laws concerning chemical substances used in this table.

- Chemical Substance Control Law; Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
- Ozone Layer Protection Law; Act on the Protection of the Ozone Layer Through the Control of Specified Substances and Other Measures

Appendix Table 1-2 Examples of Prohibited Substances

Revision5 : 2025/12/10
Enforcement : 2016/04/01

* Details of applicable substances (representative examples)

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
1.Chlorofluorocarbon (CFC)	1	75-71-8	CFC-12	ジクロロジフルオロメタン
	2	75-69-4	CFC-11	トリクロロフルオロメタン
	3	26523-64-8	Trichlorotrifluoroethane	トリクロロトリフルオロエタン
	4	354-58-5	CFC-113	トリクロロトリフルオロエタン
	5	76-13-1	CFC-113	トリクロロトリフルオロエタン
	6	1320-37-2	CFC-114	ジクロロテトラフルオロエタン
	7	374-07-2	Ethane, 1,1-dichloro-1,2,2,2-tetrafluoro-	ジクロロテトラフルオロエタン
	8	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ジクロロテトラフルオロエタン
	9	76-15-3	CFC-115	クロロペンタフルオロエタン
	10	422-78-6	C3FCI7	ヘプタクロロフルオロプロパン
	11	76-12-0	Tetrachloro-1,2-difluoroethane	テトラクロロジフルオロエタン
	12	1652-81-9	1,1,3-trichloro-1,2,2,3,3-pentafluoropropane	トリクロロペンタフルオロプロパン
	13	422-86-6	CFC-217	クロロヘプタフルオロプロパン
	14	354-56-3	CFC-111	ペンタクロロフルオロエタン
	15	75-72-9	CFC-13	クロロトリフルオロメタン
	16	28605-74-5	CFC-112	テトラクロロジフルオロエタン
	17	135401-87-5	CFC-211	ヘプタクロロフルオロプロパン
	18	422-81-1	C3FCI7	ヘプタクロロフルオロプロパン
	19	661-97-2	1,2-dichloro-1,1,2,3,3,3-hexafluoropropane	ジクロロヘキサフルオロプロパン
	20	2268-46-4	CFC-214	テトラクロロテトラフルオロプロパン
	21	134237-31-3	C3F3Cl5 CFC-213	ペンタクロロトリフルオロプロパン
	22	76-11-9	1,1,1,2-tetrachloro-2,2-difluoroethane	テトラクロロジフルオロエタン
	23	3182-26-1	CFC-212	ヘキサクロロジフルオロプロパン
	24	42560-98-5	Dichlorohexafluoropropane	ジクロロヘキサフルオロプロパン
	25	2354-06-5	C3F3Cl5	ペンタクロロトリフルオロプロパン
	26	4259-43-2	C3F5Cl3	トリクロロペンタフルオロプロパン
2.Halon	1	124-73-2	1,2-dibromotetrafluoroethane	ジブロモテトラフルオロエタン
	2	25497-30-7	Dibromotetrafluoroethane	ジブロモテトラフルオロエタン
	3	75-63-8	Methane, bromotrifluoro-	ブロモトリフルオロメタン
	4	353-59-3	Methane, bromochlorodifluoro-	ブロモクロロジフルオロメタン
5.Hydrobromofluorocarbon(HBFC)	1	1511-62-2	CHF2Br	ブロモジフルオロメタン

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	2	1868-53-7	CHFBr2	ジブロモフルオロメタン
	3	373-52-4	CH2FBr	ブロモフルオロメタン
	4	306-80-9	C2HFBr4	テトラブロモフルオロエタン
	5	-	C2HF2Br3	トリブロモジフルオロエタン
	6	354-04-1	C2HF3Br2	ジブロモトリフルオロエタン
	7	124-72-1	C2HF4Br	ブロモテトラフルオロエタン
	8	-	C2H2FBr3	トリブロモフルオロエタン
	9	75-82-1	C2H2F2Br2	ジブロモジフルオロエタン
	10	421-06-7	C2H2F3Br	2-ブromo-1,1,1-トリフルオロエタン
	11	358-97-4	C2H3FBr2	ジブロモフルオロエタン
	12	-	C2H3F2Br	ブロモジフルオロエタン
	13	762-49-2	C2H4FBr	ブロモフルオロエタン
	14	-	C3HFBr6	ヘキサブロモフルオロプロパン
	15	-	C3HF4Br3	トリブロモテトラフルオロプロパン
	16	-	C3H2F3Br3	トリブロモトリフルオロプロパン
	17	431-78-7	C3HF5Br2	ジブロモペンタフルオロプロパン
	18	2252-79-1	C3HF6Br	ブロモヘキサフルオロプロパン
	19	-	C3HF2Br5	ペンタブロモジフルオロプロパン
	20	-	C3HF3Br4	テトラブロモトリフルオロプロパン
	21	-	C3H2FBr5	ペンタブロモフルオロプロパン
	22	-	C3H2F2Br4	テトラブロモジフルオロプロパン
	23	-	C3H2F4Br2	ジブロモテトラフルオロプロパン
	24	460-88-8	C3H2F5Br	ブロモペンタフルオロプロパン
	25	-	C3H3FBr4	テトラブロモフルオロプロパン
	26	70192-80-2	C3H3F2Br3	トリブロモジフルオロプロパン
	27	70192-83-5	C3H3F3Br2	ジブロモトリフルオロプロパン
	28	679-84-5	C3H3F4Br	ブロモテトラフルオロプロパン
	29	75372-14-4	C3H4FBr3	トリブロモフルオロプロパン
	30	460-25-3	C3H4F2Br2	ジブロモジフルオロプロパン
	31	51584-26-0	C3H5FBr2	ジブロモフルオロプロパン
	32	421-46-5	C3H4F3Br	ブロモトリフルオロプロパン
	33	-	C3H5F2Br	ブロモジフルオロプロパン

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
8.Asbestos	1	1332-21-4	Asbestos	アスベスト類
	2	12001-28-4	Crocidolite	クロシドライト(青石綿) ※PIC条約収載
	3	12001-29-5	Chrysotile	クリソタイル(白石綿,温石綿)
	4	12172-73-5	Amosite	アモサイト(茶石綿) ※PIC条約収載
	5	13768-00-8	Actinolite	アクチノライト(陽起石綿)
	6	14567-73-8	Tremolite	トレモライト(透角閃石綿)
	7	17068-78-9	Anthophyllite	アンソフィライト(直閃石綿)
	8	77536-66-4 *	Actinolite	アクチノライト ※PIC条約収載
	9	77536-67-5 *	Anthophyllite	アンソフィライト ※PIC条約収載
	10	77536-68-6 *	Tremolite	トレモライト ※PIC条約収載
9.Polychlorinated biphenyl(PCB)	1	109328-45-2	(R)-2,2',3,3',4,4',6,6'-octachlorobiphenyl	(R)-2,2',3,3',4,4',6,6'-オクタクロ [1,1'-ビフェニル]
	2	109328-46-3	(S)-2,2',3,3',4,4',6,6'-octachlorobiphenyl	(S)-2,2',3,3',4,4',6,6'-オクタクロ [1,1'-ビフェニル]
	3	11097-69-1	PCB 1254	ポリ塩素化ビフェニル(組成不定)
	4	111276-74-5	2,2',3,6,6',?-hexachlorobiphenyl	2,2',3,6,6',?-ヘキサクロ [1,1'-ビフェニル] (構造不定)
	5	111276-75-6	2,4,4',?,?-pentachlorobiphenyl	2,4,4',?,?-ペンタクロ [1,1'-ビフェニル] (構造不定)
	6	111276-76-7	2,2',6',?,?-pentachlorobiphenyl	2,2',6',?,?-ペンタクロ [1,1'-ビフェニル] (構造不定)
	7	111276-77-8	2,2',5,6',?,?-hexachlorobiphenyl	2,2',5,6',?,?-ヘキサクロ [1,1'-ビフェニル] (構造不定)
	8	111276-78-9	2,?,?-trichlorobiphenyl	2,?,?-トリクロ [1,1'-ビフェニル] (構造不定)
	9	111276-79-0	4,4',?,?,?-hexachlorobiphenyl	4,4',?,?,?-ヘキサクロ [1,1'-ビフェニル] (構造不定)
	10	111276-80-3	2,2',5,6',?,?-heptachlorobiphenyl	2,2',5,6',?,?-ヘプタクロ [1,1'-ビフェニル] (構造不定)
	11	111276-81-4	4,4',?,?,?-pentachlorobiphenyl	4,4',?,?,?-ペンタクロ [1,1'-ビフェニル] (構造不定)
	12	111276-82-5	2,3,3',4,4',5,5',?-octachlorobiphenyl	2,3,3',4,4',5,5',?-オクタクロ [1,1'-ビフェニル] (構造不定)
	13	111276-83-6	2,2',5,6',?,?,?-octachlorobiphenyl	2,2',5,6',?,?,?-オクタクロ [1,1'-ビフェニル] (構造不定)
	14	1336-36-3	polychlorobiphenyl	ポリクロロビフェニル
	15	15862-07-4	2,4,5-trichlorobiphenyl	2,4,5-トリクロ [1,1'-ビフェニル]
	16	15968-05-5	2,2',6,6'-tetrachlorobiphenyl	2,2',6,6'-テトラクロ [1,1'-ビフェニル]
	17	16605-91-7	2,3-dichlorobiphenyl	2,3-ジクロ [1,1'-ビフェニル]
	18	16606-02-3	2,4',5-trichlorobiphenyl	2,4',5-トリクロ [1,1'-ビフェニル]
	19	18259-05-7	2,3,4,5,6-pentachlorobiphenyl	2,3,4,5,6-ペンタクロ [1,1'-ビフェニル]
	20	2050-67-1	3,3'-dichlorobiphenyl	3,3'-ジクロ [1,1'-ビフェニル]
	21	2050-68-2	4,4'-dichlorobiphenyl	4,4'-ジクロ [1,1'-ビフェニル]
	22	2051-24-3	2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl	デカクロ [1,1'-ビフェニル]

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	23	2051-60-7	2-chlorobiphenyl	2-クロロ [1,1'-ビフェニル]
	24	2051-61-8	3-chlorobiphenyl	3-クロロ [1,1'-ビフェニル]
	25	2051-62-9	4-chlorobiphenyl	4-クロロビフェニル
	26	2136-99-4	2,2',3,3',5,5',6,6'-octachlorobiphenyl	2,2',3,3',5,5',6,6'-オクタクロロ [1,1'-ビフェニル]
	27	2437-79-8	2,2',4,4'-tetrachlorobiphenyl	2,2',4,4'-テトラクロロ [1,1'-ビフェニル]
	28	25323-68-6	trichlorobiphenyl	トリクロロ [1,1'-ビフェニル] (構造不定)
	29	25429-29-2	pentachlorobiphenyl	ペンタクロロ [1,1'-ビフェニル] (構造不定)
	30	25512-42-9	dichlorobiphenyl	ジクロロ [1,1'-ビフェニル] (構造不定)
	31	25569-80-6	2,3'-dichlorobiphenyl	2,3'-ジクロロ [1,1'-ビフェニル]
	32	26601-64-9	hexachlorobiphenyl	ヘキサクロロ [1,1'-ビフェニル] (構造不定)
	33	26914-33-0	tetrachlorobiphenyl	テトラクロロ [1,1'-ビフェニル] (構造不定)
	34	27323-18-8	chlorobiphenyl	クロロビフェニル
	35	28655-71-2	heptachlorobiphenyl	ヘプタクロロ [1,1'-ビフェニル] (構造不定)
	36	2974-90-5	3,4'-dichlorobiphenyl	3,4'-ジクロロ [1,1'-ビフェニル]
	37	2974-92-7	3,4-dichlorobiphenyl	3,4-ジクロロ [1,1'-ビフェニル]
	38	31472-83-0	octachlorobiphenyl	オクタクロロ [1,1'-ビフェニル] (構造不定)
	39	31508-00-6	2,3',4,4',5-pentachlorobiphenyl	2,3',4,4',5-ペンタクロロ [1,1'-ビフェニル]
	40	32598-10-0	2,3',4,4'-tetrachlorobiphenyl	2,3',4,4'-テトラクロロ [1,1'-ビフェニル]
	41	32598-11-1	2,3',4',5-tetrachlorobiphenyl	2,3',4',5-テトラクロロ [1,1'-ビフェニル]
	42	32598-12-2	2,4,4',6-tetrachlorobiphenyl	2,4,4',6-テトラクロロ [1,1'-ビフェニル]
	43	32598-13-3	3,3',4,4'-tetrachlorobiphenyl	3,3',4,4'-テトラクロロ [1,1'-ビフェニル]
	44	32598-14-4	2,3,3',4,4'-pentachlorobiphenyl	2,3,3',4,4'-ペンタクロロ [1,1'-ビフェニル]
	45	32690-93-0	2,4,4',5-tetrachlorobiphenyl	2,4,4',5-テトラクロロ [1,1'-ビフェニル]
	46	32774-16-6	3,3',4,4',5,5'-hexachlorobiphenyl	3,3',4,4',5,5'-ヘキサクロロ [1,1'-ビフェニル]
	47	33025-41-1	2,3,4,4'-tetrachlorobiphenyl	2,3,4,4'-テトラクロロ [1,1'-ビフェニル]
	48	33091-17-7	2,2',3,3',4,4',6,6'-octachlorobiphenyl	2,2',3,3',4,4',6,6'-オクタクロロ [1,1'-ビフェニル]
	49	33146-45-1	2,6-dichlorobiphenyl	2,6-ジクロロ [1,1'-ビフェニル]
	50	33284-50-3	2,4-dichlorobiphenyl	2,4-ジクロロ [1,1'-ビフェニル]
	51	33284-52-5	3,3',5,5'-tetrachlorobiphenyl	3,3',5,5'-テトラクロロ [1,1'-ビフェニル]
	52	33284-53-6	2,3,4,5-tetrachlorobiphenyl	2,3,4,5-テトラクロロ [1,1'-ビフェニル]
	53	33284-54-7	2,3,5,6-tetrachlorobiphenyl	2,3,5,6-テトラクロロ [1,1'-ビフェニル]
	54	33979-03-2	2,2',4,4',6,6'-hexachlorobiphenyl	2,2',4,4',6,6'-ヘキサクロロ [1,1'-ビフェニル]

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	55	34883-39-1	2,5-dichlorobiphenyl	2,5-ジクロロ [1,1'-ビフェニル]
	56	34883-41-5	3,5-dichlorobiphenyl	3,5-ジクロロ [1,1'-ビフェニル]
	57	34883-43-7	2,4'-dichlorobiphenyl	2,4'-ジクロロ [1,1'-ビフェニル]
	58	35065-27-1	2,2',4,4',5,5'-hexachlorobiphenyl	2,2',4,4',5,5'-ヘキサクロロ [1,1'-ビフェニル] -U-14C
	59	35065-28-2	2,2',3,4,4',5'-hexachlorobiphenyl	2,2',3,4,4',5'-ヘキサクロロ [1,1'-ビフェニル]
	60	35065-29-3	2,2',3,4,4',5,5'-heptachlorobiphenyl	2,2',3,4,4',5,5'-ヘプタクロロ [1,1'-ビフェニル]
	61	35065-30-6	2,2',3,3',4,4',5'-heptachlorobiphenyl	2,2',3,3',4,4',5'-ヘプタクロロ [1,1'-ビフェニル]
	62	35693-92-6	2,4,6-trichlorobiphenyl	2,4,6-トリクロロ [1,1'-ビフェニル]
	63	35693-99-3	2,2',5,5'-tetrachlorobiphenyl	2,2',5,5'-テトラクロロ [1,1'-ビフェニル]
	64	35694-04-3	2,2',3,3',5,5'-hexachlorobiphenyl	2,2',3,3',5,5'-ヘキサクロロ [1,1'-ビフェニル]
	65	35694-06-5	2,2',3,4,4',5'-hexachlorobiphenyl	2,2',3,4,4',5'-ヘキサクロロ [1,1'-ビフェニル]
	66	35694-08-7	2,2',3,3',4,4',5,5'-octachlorobiphenyl	2,2',3,3',4,4',5,5'-オクタクロロ [1,1'-ビフェニル]
	67	36559-22-5	2,2',3,4'-tetrachlorobiphenyl	2,2',3,4'-テトラクロロ [1,1'-ビフェニル]
	68	37680-65-2	2,2',5-trichlorobiphenyl	2,2',5-トリクロロ [1,1'-ビフェニル]
	69	37680-66-3	2,2',4-trichlorobiphenyl	2,2',4-トリクロロ [1,1'-ビフェニル]
	70	37680-68-5	2,3',5'-trichlorobiphenyl	2,3',5'-トリクロロ [1,1'-ビフェニル]
	71	37680-69-6	3,3',4-trichlorobiphenyl	3,3',4-トリクロロ [1,1'-ビフェニル]
	72	37680-73-2	2,2',4,5,5'-pentachlorobiphenyl	2,2',4,5,5'-ペンタクロロ [1,1'-ビフェニル]
	73	38379-99-6	2,2',3,5',6'-pentachlorobiphenyl	2,2',3,5',6'-ペンタクロロ [1,1'-ビフェニル]
	74	38380-01-7	2,2',4,4',5'-pentachlorobiphenyl	2,2',4,4',5'-ペンタクロロ [1,1'-ビフェニル]
	75	38380-02-8	2,2',3,4,5'-pentachlorobiphenyl	2,2',3,4,5'-ペンタクロロ [1,1'-ビフェニル]
	76	38380-03-9	2,3,3',4',6'-pentachlorobiphenyl	2,3,3',4',6'-ペンタクロロ [1,1'-ビフェニル]
	77	38380-04-0	2,2',3,4',5',6'-hexachlorobiphenyl	2,2',3,4',5',6'-ヘキサクロロ [1,1'-ビフェニル]
	78	38380-05-1	2,2',3,3',4,6'-hexachlorobiphenyl	2,2',3,3',4,6'-ヘキサクロロ [1,1'-ビフェニル]
	79	38380-07-3	2,2',3,3',4,4'-hexachlorobiphenyl	2,2',3,3',4,4'-ヘキサクロロ [1,1'-ビフェニル]
	80	38380-08-4	2,3,3',4,4',5'-hexachlorobiphenyl	2,3,3',4,4',5'-ヘキサクロロ [1,1'-ビフェニル]
	81	38411-22-2	2,2',3,3',6,6'-hexachlorobiphenyl	2,2',3,3',6,6'-ヘキサクロロ [1,1'-ビフェニル]
	82	38411-25-5	2,2',3,3',4,5,6'-heptachlorobiphenyl	2,2',3,3',4,5,6'-ヘプタクロロ [1,1'-ビフェニル]
	83	38444-73-4	2,2',6-trichlorobiphenyl	2,2',6-トリクロロ [1,1'-ビフェニル]
	84	38444-76-7	2,3',6-trichlorobiphenyl	2,3',6-トリクロロ [1,1'-ビフェニル]
	85	38444-77-8	2,4',6-trichlorobiphenyl	2,4',6-トリクロロ [1,1'-ビフェニル]
	86	38444-78-9	2,2',3-trichlorobiphenyl	2,2',3-トリクロロ [1,1'-ビフェニル]

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	87	38444-81-4	2,3',5-trichlorobiphenyl	2,3',5-トリクロロ [1,1'-ビフェニル]
	88	38444-84-7	2,3,3'-trichlorobiphenyl	2,3,3'-トリクロロ [1,1'-ビフェニル]
	89	38444-85-8	2,3,4'-trichlorobiphenyl	2,3,4'-トリクロロ [1,1'-ビフェニル]
	90	38444-86-9	2',3,4-trichlorobiphenyl	2,3',4'-トリクロロ [1,1'-ビフェニル]
	91	38444-87-0	3,3',5-trichlorobiphenyl	3,3',5-トリクロロ [1,1'-ビフェニル]
	92	38444-88-1	3,4',5-trichlorobiphenyl	3,4',5-トリクロロ [1,1'-ビフェニル]
	93	38444-90-5	3,4,4'-trichlorobiphenyl	3,4,4'-トリクロロ [1,1'-ビフェニル]
	94	38444-93-8	2,2',3,3'-tetrachlorobiphenyl	2,2',3,3'-テトラクロロ [1,1'-ビフェニル]
	95	39485-83-1	2,2',4,4',6-pentachlorobiphenyl	2,2',4,4',6-ペンタクロロ [1,1'-ビフェニル]
	96	39635-31-9	2,3,3',4,4',5,5'-heptachlorobiphenyl	2,3,3',4,4',5,5'-ヘプタクロロ [1,1'-ビフェニル]
	97	39635-32-0	2,3,3',5,5'-pentachlorobiphenyl	2,3,3',5,5'-ペンタクロロ [1,1'-ビフェニル]
	98	39635-33-1	3,3',4,5,5'-pentachlorobiphenyl	3,3',4,5,5'-ペンタクロロ [1,1'-ビフェニル]
	99	39635-34-2	2,3,3',4',5,5'-hexachlorobiphenyl	2,3,3',4',5,5'-ヘキサクロロ [1,1'-ビフェニル]
	100	39635-35-3	2,3,3',4,5,5'-hexachlorobiphenyl	2,3,3',4,5,5'-ヘキサクロロ [1,1'-ビフェニル]
	101	40186-70-7	2,2',3,3',4,5',6-heptachlorobiphenyl	2,2',3,3',4,5',6-ヘプタクロロ [1,1'-ビフェニル]
	102	40186-71-8	2,2',3,3',4,5',6,6'-octachlorobiphenyl	2,2',3,3',4,5',6,6'-オクタクロロ [1,1'-ビフェニル]
	103	40186-72-9	2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	2,2',3,3',4,4',5,5',6-ノナクロロ [1,1'-ビフェニル]
	104	41411-61-4	2,2',3,4,5,6-hexachlorobiphenyl	2,2',3,4,5,6-ヘキサクロロ [1,1'-ビフェニル]
	105	41411-62-5	2,3,3',4,5,6-hexachlorobiphenyl	2,3,3',4,5,6-ヘキサクロロ [1,1'-ビフェニル]
	106	41411-63-6	2,3,4,4',5,6-hexachlorobiphenyl	2,3,4,4',5,6-ヘキサクロロ [1,1'-ビフェニル]
	107	41411-64-7	2,3,3',4,4',5,6-heptachlorobiphenyl	2,3,3',4,4',5,6-ヘプタクロロ [1,1'-ビフェニル]
	108	41464-39-5	2,2',3,5'-tetrachlorobiphenyl	2,2',3,5'-テトラクロロ [1,1'-ビフェニル]
	109	41464-40-8	2,2',4,5'-tetrachlorobiphenyl	2,2',4,5'-テトラクロロ [1,1'-ビフェニル]
	110	41464-41-9	2,2',5,6'-tetrachlorobiphenyl	2,2',5,6'-テトラクロロ [1,1'-ビフェニル]
	111	41464-42-0	2,3',5,5'-tetrachlorobiphenyl	2,3',5,5'-テトラクロロ [1,1'-ビフェニル]
	112	41464-43-1	2,3,3',4'-tetrachlorobiphenyl	2,3,3',4'-テトラクロロ [1,1'-ビフェニル]
	113	41464-46-4	2,3',4',6-tetrachlorobiphenyl	2,3',4',6-テトラクロロ [1,1'-ビフェニル]
	114	41464-47-5	2,2',3,6'-tetrachlorobiphenyl	2,2',3,6'-テトラクロロ [1,1'-ビフェニル]
	115	41464-48-6	3,3',4,5'-tetrachlorobiphenyl	3,3',4,5'-テトラクロロ [1,1'-ビフェニル]
	116	41464-49-7	2,3,3',5'-tetrachlorobiphenyl	2,3,3',5'-テトラクロロ [1,1'-ビフェニル]
	117	41464-51-1	2,2',3,4',5'-pentachlorobiphenyl	2,2',3,4',5'-ペンタクロロ [1,1'-ビフェニル]
	118	42740-50-1	2,2',3,3',4,4',5,6'-octachlorobiphenyl	2,2',3,3',4,4',5,6'-オクタクロロ [1,1'-ビフェニル]

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	119	51908-16-8	2,2',3,4',5,5'-hexachlorobiphenyl	2,2',3,4',5,5'-ヘキサクロ [1,1'-ビフェニル]
	120	52663-58-8	2,3,4',6-tetrachlorobiphenyl	2,3,4',6-テトラクロ [1,1'-ビフェニル]
	121	52663-59-9	2,2',3,4-tetrachlorobiphenyl	2,2',3,4-テトラクロ [1,1'-ビフェニル]
	122	52663-60-2	2,2',3,3',6-pentachlorobiphenyl	2,2',3,3',6-ペンタクロ [1,1'-ビフェニル]
	123	52663-61-3	2,2',3,5,5'-pentachlorobiphenyl	2,2',3,5,5'-ペンタクロ [1,1'-ビフェニル]
	124	52663-63-5	2,2',3,5,5',6-hexachlorobiphenyl	2,2',3,5,5',6-ヘキサクロ [1,1'-ビフェニル]
	125	52663-64-6	2,2',3,3',5,6,6'-heptachlorobiphenyl	2,2',3,3',5,6,6'-ヘプタクロ [1,1'-ビフェニル]
	126	52663-65-7	2,2',3,3',4,6,6'-heptachlorobiphenyl	2,2',3,3',4,6,6'-ヘプタクロ [1,1'-ビフェニル]
	127	52663-66-8	2,2',3,3',4,5'-hexachlorobiphenyl	2,2',3,3',4,5'-ヘキサクロ [1,1'-ビフェニル]
	128	52663-67-9	2,2',3,3',5,5',6-heptachlorobiphenyl	2,2',3,3',5,5',6-ヘプタクロ [1,1'-ビフェニル]
	129	52663-68-0	2,2',3,4',5,5',6-heptachlorobiphenyl	2,2',3,4',5,5',6-ヘプタクロ [1,1'-ビフェニル]
	130	52663-69-1	2,2',3,4,4',5',6-heptachlorobiphenyl	2,2',3,4,4',5',6-ヘプタクロ [1,1'-ビフェニル]
	131	52663-70-4	2,2',3,3',4,5',6'-heptachlorobiphenyl	2,2',3,3',4,5',6'-ヘプタクロ [1,1'-ビフェニル]
	132	52663-71-5	2,2',3,3',4,4',6-heptachlorobiphenyl	2,2',3,3',4,4',6-ヘプタクロ [1,1'-ビフェニル]
	133	52663-72-6	2,3',4,4',5,5'-hexachlorobiphenyl	2,3,4,4',5,5'-ヘキサクロ [1,1'-ビフェニル]
	134	52663-73-7	2,2',3,3',4,5,6,6'-octachlorobiphenyl	2,2',3,3',4,5,6,6'-オクタクロ [1,1'-ビフェニル]
	135	52663-74-8	2,2',3,3',4,5,5'-heptachlorobiphenyl	2,2',3,3',4,5,5'-ヘプタクロ [1,1'-ビフェニル]
	136	52663-75-9	2,2',3,3',4,5,5',6'-octachlorobiphenyl	2,2',3,3',4,5,5',6'-オクタクロ [1,1'-ビフェニル]
	137	52663-76-0	2,2',3,4,4',5,5',6'-octachlorobiphenyl	2,2',3,4,4',5,5',6'-オクタクロ [1,1'-ビフェニル]
	138	52663-77-1	2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	2,2',3,3',4,5,5',6,6'-ノナクロ [1,1'-ビフェニル]
	139	52663-78-2	2,2',3,3',4,4',5,6'-octachlorobiphenyl	2,2',3,3',4,4',5,6'-オクタクロ [1,1'-ビフェニル]
	140	52663-79-3	2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl	2,2',3,3',4,4',5,6,6'-ノナクロ [1,1'-ビフェニル]
	141	52704-70-8	2,2',3,3',5,6-hexachlorobiphenyl	2,2',3,3',5,6-ヘキサクロ [1,1'-ビフェニル]
	142	52712-04-6	2,2',3,4,5,5'-hexachlorobiphenyl	2,2',3,4,5,5'-ヘキサクロ [1,1'-ビフェニル]
	143	52712-05-7	2,2',3,4,5,5',6-heptachlorobiphenyl	2,2',3,4,5,5',6-ヘプタクロ [1,1'-ビフェニル]
	144	52744-13-5	2,2',3,3',5,6'-hexachlorobiphenyl	2,2',3,3',5,6'-ヘキサクロ [1,1'-ビフェニル]
	145	53555-66-1	3,4,5-trichlorobiphenyl	3,4,5-トリクロ [1,1'-ビフェニル]
	146	54230-22-7	2,3,4,6-tetrachlorobiphenyl	2,3,4,6-テトラクロ [1,1'-ビフェニル]
	147	55215-17-3	(+)-2,2',3,4,6-pentachlorobiphenyl	2,2',3,4,6-ペンタクロ [1,1'-ビフェニル]
	148	55215-18-4	2,2',3,3',4,5-hexachlorobiphenyl	2,2',3,3',4,5-ヘキサクロ [1,1'-ビフェニル]
	149	55312-69-1	2,2',3,4,5-pentachlorobiphenyl	2,2',3,4,5-ペンタクロ [1,1'-ビフェニル]
	150	55702-45-9	2,3,6-trichlorobiphenyl	2,3,6-トリクロ [1,1'-ビフェニル]

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	151	55702-46-0	2,3,4-trichlorobiphenyl	2,3,4-トリクロロ [1,1'-ビフェニル]
	152	55712-37-3	2,3',4-trichlorobiphenyl	2,3',4-トリクロロ [1,1'-ビフェニル]
	153	55720-44-0	2,3,5-trichlorobiphenyl	2,3,5-トリクロロ [1,1'-ビフェニル]
	154	56030-56-9	(+)-2,2',3,4,4',6-hexachlorobiphenyl	2,2',3,4,4',6-ヘキサクロロ [1,1'-ビフェニル]
	155	56558-16-8	2,2',4,6,6'-pentachlorobiphenyl	2,2',4,6,6'-ペンタクロロ [1,1'-ビフェニル]
	156	56558-17-9	2,3',4,4',6-pentachlorobiphenyl	2,3',4,4',6-ペンタクロロ [1,1'-ビフェニル]
	157	56558-18-0	2,3',4,5',6-pentachlorobiphenyl	2,3',4,5',6-ペンタクロロ [1,1'-ビフェニル]
	158	74472-53-0	2,3,3',4,4',5,5',6-octachlorobiphenyl	2,3,3',4,4',5,5',6-オクタクロロビフェニル
	159	57465-28-8	3,3',4,4',5-pentachlorobiphenyl	3,3',4,4',5-ペンタクロロ [1,1'-ビフェニル]
	160	59291-64-4	2,2',3,4,4',6'-hexachlorobiphenyl	2,2',3,4,4',6'-ヘキサクロロ [1,1'-ビフェニル]
	161	59291-65-5	2,3',4,4',5',6-hexachlorobiphenyl	2,3',4,4',5',6-ヘキサクロロ [1,1'-ビフェニル]
	162	60145-20-2	2,2',3,3',5-pentachlorobiphenyl	2,2',3,3',5-ペンタクロロ [1,1'-ビフェニル]
	163	60145-21-3	2,2',4,5',6-pentachlorobiphenyl	2,2',4,5',6-ペンタクロロ [1,1'-ビフェニル]
	164	60145-22-4	2,2',4,4',5,6'-hexachlorobiphenyl	2,2',4,4',5,6'-ヘキサクロロ [1,1'-ビフェニル]
	165	60145-23-5	2,2',3,4,4',5,6'-heptachlorobiphenyl	2,2',3,4,4',5,6'-ヘプタクロロ [1,1'-ビフェニル]
	166	60233-24-1	2,3',4,6-tetrachlorobiphenyl	2,3',4,6-テトラクロロ [1,1'-ビフェニル]
	167	60233-25-2	2,2',3,4',6'-pentachlorobiphenyl	2,2',3,4',6'-ペンタクロロ [1,1'-ビフェニル]
	168	61798-70-7	2,2',3,3',4,6-hexachlorobiphenyl	2,2',3,3',4,6-ヘキサクロロ [1,1'-ビフェニル]
	169	62796-65-0	2,2',4,6-tetrachlorobiphenyl	2,2',4,6-テトラクロロ [1,1'-ビフェニル]
	170	65510-44-3	2,3',4,4',5'-pentachlorobiphenyl	2,3',4,4',5'-ペンタクロロ [1,1'-ビフェニル]
	171	65510-45-4	2,2',3,4,4'-pentachlorobiphenyl	2,2',3,4,4'-ペンタクロロ [1,1'-ビフェニル]
	172	68194-04-7	2,2',4,6'-tetrachlorobiphenyl	2,2',4,6'-テトラクロロ [1,1'-ビフェニル]
	173	68194-05-8	2,2',3,4',6-pentachlorobiphenyl	2,2',3,4',6-ペンタクロロ [1,1'-ビフェニル]
	174	68194-06-9	2,2',4,5,6'-pentachlorobiphenyl	2,2',4,5,6'-ペンタクロロ [1,1'-ビフェニル]
	175	68194-07-0	2,2',3,4',5-pentachlorobiphenyl	2,2',3,4',5-ペンタクロロ [1,1'-ビフェニル]
	176	68194-08-1	2,2',3,4',6'-hexachlorobiphenyl	2,2',3,4',6'-ヘキサクロロ [1,1'-ビフェニル]
	177	68194-09-2	2,2',3,5,6,6'-hexachlorobiphenyl	2,2',3,5,6,6'-ヘキサクロロ [1,1'-ビフェニル]
	178	68194-10-5	2,3,3',5',6-pentachlorobiphenyl	2,3,3',5',6-ペンタクロロ [1,1'-ビフェニル]
	179	68194-11-6	2,3,4',5,6-pentachlorobiphenyl	2,3,4',5,6-ペンタクロロ [1,1'-ビフェニル]
	180	68194-12-7	2,3',4,5,5'-pentachlorobiphenyl	2,3',4,5,5'-ペンタクロロ [1,1'-ビフェニル]
	181	68194-13-8	2,2',3,4',5,6-hexachlorobiphenyl	2,2',3,4',5,6-ヘキサクロロ [1,1'-ビフェニル]
	182	68194-14-9	2,2',3,4,5',6-hexachlorobiphenyl	2,2',3,4,5',6-ヘキサクロロ [1,1'-ビフェニル]

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	183	68194-15-0	2,2',3,4,5,6'-hexachlorobiphenyl	2,2',3,4,5,6'-ヘキサクロ [1,1'-ビフェニル]
	184	68194-16-1	2,2',3,3',4,5,6-heptachlorobiphenyl	2,2',3,3',4,5,6-ヘプタクロ [1,1'-ビフェニル]
	185	68194-17-2	2,2',3,3',4,5,5',6-octachlorobiphenyl	2,2',3,3',4,5,5',6-オクタクロ [1,1'-ビフェニル]
	186	69782-90-7	2,3,3',4,4',5'-hexachlorobiphenyl	2,3,3',4,4',5'-ヘキサクロ [1,1'-ビフェニル]
	187	69782-91-8	2,3,3',4',5,5',6'-heptachlorobiphenyl	2,3,3',4',5,5',6'-ヘプタクロ [1,1'-ビフェニル]
	188	7012-37-5	2,4,4'-trichlorobiphenyl	2,4,4'-トリクロ [1,1'-ビフェニル]
	189	70362-41-3	2,3,3',4,5'-pentachlorobiphenyl	2,3,3',4,5'-ペンタクロ [1,1'-ビフェニル]
	190	70362-45-7	2,2',3,6-tetrachlorobiphenyl	2,2',3,6-テトラクロ [1,1'-ビフェニル]
	191	70362-46-8	2,2',3,5-tetrachlorobiphenyl	2,2',3,5-テトラクロ [1,1'-ビフェニル]
	192	70362-48-0	2,3',4',5'-tetrachlorobiphenyl	2,3',4',5'-テトラクロ [1,1'-ビフェニル]
	193	70362-49-1	3,3',4,5-tetrachlorobiphenyl	3,3',4,5-テトラクロ [1,1'-ビフェニル]
	194	70362-50-4	3,4,4',5-tetrachlorobiphenyl	3,4,4',5-テトラクロ [1,1'-ビフェニル]
	195	70424-67-8	2,3,3',5-tetrachlorobiphenyl	2,3,3',5-テトラクロ [1,1'-ビフェニル]
	196	70424-68-9	2,3,3',4',5-pentachlorobiphenyl	2,3,3',4',5-ペンタクロ [1,1'-ビフェニル]
	197	70424-69-0	2,3,3',4,5-pentachlorobiphenyl	2,3,3',4,5-ペンタクロ [1,1'-ビフェニル]
	198	70424-70-3	2,3',4',5,5'-pentachlorobiphenyl	2,3',4',5,5'-ペンタクロ [1,1'-ビフェニル]
	199	73575-52-7	2,3',4,5'-tetrachlorobiphenyl	2,3',4,5'-テトラクロ [1,1'-ビフェニル]
	200	73575-53-8	2,3',4,5-tetrachlorobiphenyl	2,3',4,5-テトラクロ [1,1'-ビフェニル]
	201	73575-54-9	2,2',3,6,6'-pentachlorobiphenyl	2,2',3,6,6'-ペンタクロ [1,1'-ビフェニル]
	202	73575-55-0	2,2',3,5,6'-pentachlorobiphenyl	2,2',3,5,6'-ペンタクロ [1,1'-ビフェニル]
	203	73575-56-1	2,2',3,5,6-pentachlorobiphenyl	2,2',3,5,6-ペンタクロ [1,1'-ビフェニル]
	204	73575-57-2	2,2',3,4,6'-pentachlorobiphenyl	2,2',3,4,6'-ペンタクロ [1,1'-ビフェニル]
	205	74338-23-1	2,3',5',6-tetrachlorobiphenyl	2,3',5',6-テトラクロ [1,1'-ビフェニル]
	206	74338-24-2	2,3,3',4-tetrachlorobiphenyl	2,3,3',4-テトラクロ [1,1'-ビフェニル]
	207	74472-33-6	2,3,3',6-tetrachlorobiphenyl	2,3,3',6-テトラクロ [1,1'-ビフェニル]
	208	74472-34-7	2,3,4',5-tetrachlorobiphenyl	2,3,4',5-テトラクロ [1,1'-ビフェニル]
	209	74472-35-8	2,3,3',4,6-pentachlorobiphenyl	2,3,3',4,6-ペンタクロ [1,1'-ビフェニル]
	210	74472-36-9	2,3,3',5,6-pentachlorobiphenyl	2,3,3',5,6-ペンタクロ [1,1'-ビフェニル]
	211	74472-37-0	2,3,4,4',5-pentachlorobiphenyl	2,3,4,4',5-ペンタクロ [1,1'-ビフェニル]
	212	74472-38-1	2,3,4,4',6-pentachlorobiphenyl	2,3,4,4',6-ペンタクロ [1,1'-ビフェニル]
	213	74472-39-2	2,3',4',5',6-pentachlorobiphenyl	2,3',4',5',6-ペンタクロ [1,1'-ビフェニル]
	214	74472-40-5	2,2',3,4,6,6'-hexachlorobiphenyl	2,2',3,4,6,6'-ヘキサクロ [1,1'-ビフェニル]

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	215	74472-41-6	2,2',3,4',5,6'-hexachlorobiphenyl	2,2',3,4',5,6'-ヘキサクロ [1,1'-ビフェニル]
	216	74472-42-7	2,3,3',4,4',6-hexachlorobiphenyl	2,3,3',4,4',6-ヘキサクロ [1,1'-ビフェニル]
	217	74472-43-8	2,3,3',4,5',6-hexachlorobiphenyl	2,3,3',4,5',6-ヘキサクロ [1,1'-ビフェニル]
	218	74472-44-9	2,3,3',4',5,6-hexachlorobiphenyl	2,3,3',4',5,6-ヘキサクロ [1,1'-ビフェニル]
	219	74472-45-0	2,3,3',4',5',6-hexachlorobiphenyl	2,3,3',4',5',6-ヘキサクロ [1,1'-ビフェニル]
	220	74472-46-1	2,3,3',5,5',6-hexachlorobiphenyl	2,3,3',5,5',6-ヘキサクロ [1,1'-ビフェニル]
	221	74472-47-2	2,2',3,4,4',5,6-heptachlorobiphenyl	2,2',3,4,4',5,6-ヘプタクロ [1,1'-ビフェニル]
	222	74472-48-3	2,2',3,4,4',6'-heptachlorobiphenyl	2,2',3,4,4',6'-ヘプタクロ [1,1'-ビフェニル]
	223	74472-49-4	2,2',3,4,5,6,6'-heptachlorobiphenyl	2,2',3,4,5,6,6'-ヘプタクロ [1,1'-ビフェニル]
	224	74472-50-7	2,3,3',4,4',5',6-heptachlorobiphenyl	2,3,3',4,4',5',6-ヘプタクロ [1,1'-ビフェニル]
	225	74472-51-8	2,3,3',4,5,5',6-heptachlorobiphenyl	2,3,3',4,5,5',6-ヘプタクロ [1,1'-ビフェニル]
	226	74472-52-9	2,2',3,4,4',5,6,6'-octachlorobiphenyl	2,2',3,4,4',5,6,6'-オクタクロ [1,1'-ビフェニル]
	227	74487-85-7	2,2',3,4',5,6,6'-heptachlorobiphenyl	2,2',3,4',5,6,6'-ヘプタクロ [1,1'-ビフェニル]
	228	76842-07-4	2,3,3',4',5'-pentachlorobiphenyl	2,3,3',4',5'-ペンタクロ [1,1'-ビフェニル]
	229	99554-08-2	(+)-2,2',3,4,6-pentachlorobiphenyl	(+)-2,2',3,4,6-ペンタクロ [1,1'-ビフェニル]
	230	99554-09-3	(+)-2,2',3,4,4',6-hexachlorobiphenyl	(+)-2,2',3,4,4',6-ヘキサクロ [1,1'-ビフェニル]
	231	99554-10-6	(+)-2,2',3,4,6-pentachlorobiphenyl	(+)-2,2',3,4,6-ペンタクロ [1,1'-ビフェニル]
	232	99554-11-7	(-)-2,2',3,4,6-pentachlorobiphenyl	(-)-2,2',3,4,6-ペンタクロ [1,1'-ビフェニル]
	233	99554-12-8	(+)-2,2',3,4,4',6-hexachlorobiphenyl	(+)-2,2',3,4,4',6-ヘキサクロ [1,1'-ビフェニル]
	234	99554-13-9	(-)-2,2',3,4,4',6-hexachlorobiphenyl	(-)-2,2',3,4,4',6-ヘキサクロ [1,1'-ビフェニル]
10. Polychlorinated naphthalene (PCN)	1	103426-92-2	1,2,4,5,7,8-Hexachloro naphthalene	1,2,4,5,7,8-ヘキサクロナフタレン
	2	103426-93-3	1,2,3,4,5,8-Hexachloro naphthalene	1,2,3,4,5,8-ヘキサクロナフタレン
	3	103426-94-4	1,2,3,5,7,8-Hexachloro naphthalene	1,2,3,5,7,8-ヘキサクロナフタレン
	4	103426-95-5	1,2,3,5,6,8-Hexachloro naphthalene	1,2,3,5,6,8-ヘキサクロナフタレン
	5	103426-96-6	1,2,3,4,6,7-Hexachloro naphthalene	1,2,3,4,6,7-ヘキサクロナフタレン
	6	103426-97-7	1,2,3,5,6,7-Hexachloro naphthalene	1,2,3,5,6,7-ヘキサクロナフタレン
	7	1321-64-8	Naphthalene, pentachloro-	ペンタクロナフタレン
	8	1321-65-9	Naphthalene, trichloro-	トリクロナフタレン
	9	1335-87-1	Naphthalene, hexachloro-	ヘキサクロナフタレン
	10	1335-88-2	Naphthalene, tetrachloro-	テトラクロナフタレン
	11	149864-78-8	1,2,3,6-Tetrachloro naphthalene	1,2,3,6-テトラクロナフタレン
	12	149864-79-9	1,2,6,7-Tetrachloro naphthalene	1,2,6,7-テトラクロナフタレン

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	13	149864-80-2	1,2,5,8-Tetrachloro naphthalene	1,2,5,8-テトラクロロナフタレン
	14	149864-81-3	1,2,3,8-Tetrachloro naphthalene	1,2,3,8-テトラクロロナフタレン
	15	149864-82-4	1,2,7,8-Tetrachloro naphthalene	1,2,7,8-テトラクロロナフタレン
	16	150205-21-3	1,2,3,7,8-Pentachloro naphthalene	1,2,3,7,8-ペンタクロロナフタレン
	17	150224-15-0	1,2,6,8-Tetrachloro naphthalene	1,3,6,8-テトラクロロナフタレン
	18	150224-16-1	1,2,3,6,7-Pentachloro naphthalene	1,2,3,6,7-ペンタクロロナフタレン
	19	150224-17-2	1,2,4,6,7-Pentachloro naphthalene	1,2,4,6,7-ペンタクロロナフタレン
	20	150224-18-3	1,2,3,5,6-Pentachloro naphthalene	1,2,3,5,6-ペンタクロロナフタレン
	21	150224-19-4	1,2,4,5,7-Pentachloro naphthalene	1,2,4,5,7-ペンタクロロナフタレン
	22	150224-20-7	1,2,4,5,6-Pentachloro naphthalene	1,2,4,5,6-ペンタクロロナフタレン
	23	150224-21-8	1,2,4,7,8-Pentachloro naphthalene	1,2,4,7,8-ペンタクロロナフタレン
	24	150224-22-9	1,2,4,6,8-Pentachloro naphthalene	1,2,4,6,8-ペンタクロロナフタレン
	25	150224-23-0	1,2,3,6,8-Pentachloro naphthalene	1,2,3,6,8-ペンタクロロナフタレン
	26	150224-24-1	1,2,3,5,8-Pentachloro naphthalene	1,2,3,5,8-ペンタクロロナフタレン
	27	150224-25-2	1,2,4,5,8-Pentachloro naphthalene	1,2,4,5,8-ペンタクロロナフタレン
	28	17062-87-2	1,2,3,6,7,8-Hexachloro naphthalene	1,2,3,6,7,8-ヘキサクロロナフタレン
	29	20020-02-4	1,2,3,4-Tetrachloro naphthalene	1,2,3,4-テトラクロロナフタレン
	30	2234-13-1	Naphthalene, octachloro-	オクタクロロナフタレン
	31	2437-54-9	1,4,6-Trichloro naphthalene	1,4,6-トリクロロナフタレン
	32	2437-55-0	1,4,5-Trichloro naphthalene	1,4,5-トリクロロナフタレン
	33	31604-28-1	1,3,5,8-Tetrachloro naphthalene	1,3,5,8-テトラクロロナフタレン
	34	32241-08-0	Naphthalene, heptachloro-	ヘプタクロロナフタレン
	35	3432-57-3	1,4,5,8-Tetrachloro naphthalene	1,4,5,8-テトラクロロナフタレン
	36	34588-40-4	2,3,6,7-Tetrachloro naphthalene	2,3,6,7-テトラクロロナフタレン
	37	50402-51-2	1,2,4-Trichloro naphthalene	1,2,4-トリクロロナフタレン
	38	50402-52-3	1,2,3-Trichloro naphthalene	1,2,3-トリクロロナフタレン
	39	51570-43-5	1,3,5-Trichloro naphthalene	1,3,5-トリクロロナフタレン
	40	51570-44-6	1,2,6-Trichloro naphthalene	1,2,6-トリクロロナフタレン
	41	51570-45-7	1,2,4,6-Tetrachloro naphthalene	1,2,4,6-テトラクロロナフタレン
	42	53555-63-8	1,2,3,5-Tetrachloro naphthalene	1,2,3,5-テトラクロロナフタレン
	43	53555-64-9	1,3,5,7-Tetrachloro naphthalene	1,3,5,7-テトラクロロナフタレン
	44	53555-65-0	1,2,3,5,7-Pentachloro naphthalene	1,2,3,5,7-ペンタクロロナフタレン

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	45	55720-33-7	1,2,5-Trichloro naphthalene	1,2,5-トリクロロナフタレン
	46	55720-34-8	1,2,7-Trichloro naphthalene	1,2,7-トリクロロナフタレン
	47	55720-35-9	1,2,8-Trichloro naphthalene	1,2,8-トリクロロナフタレン
	48	55720-36-0	1,3,6-Trichloro naphthalene	1,3,6-トリクロロナフタレン
	49	55720-37-1	1,3,7-Trichloro naphthalene	1,3,7-トリクロロナフタレン
	50	55720-38-2	1,3,8-Trichloro naphthalene	1,3,8-トリクロロナフタレン
	51	55720-39-3	1,6,7-Trichloro naphthalene	1,6,7-トリクロロナフタレン
	52	55720-40-6	2,3,6-Trichloro naphthalene	2,3,6-トリクロロナフタレン
	53	55720-41-7	1,2,3,7-Tetrachloro naphthalene	1,2,3,7-テトラクロロナフタレン
	54	55720-42-8	1,3,6,7-Tetrachloro naphthalene	1,3,6,7-テトラクロロナフタレン
	55	55720-43-9	1,4,6,7-Tetrachloro naphthalene	1,4,6,7-テトラクロロナフタレン
	56	58863-14-2	1,2,3,4,5,6,7-Heptachloro naphthalene	1,2,3,4,5,6,7-ヘプタクロロナフタレン
	57	58863-15-3	1,2,3,4,5,6,8-Heptachloro naphthalene	1,2,3,4,5,6,8-ヘプタクロロナフタレン
	58	58877-88-6	1,2,3,4,5,6-Hexachloro naphthalene	1,2,3,4,5,6-ヘキサクロロナフタレン
	59	6529-87-9	1,2,4,8-Tetrachloro naphthalene	1,2,4,8-テトラクロロナフタレン
	60	6733-54-6	1,2,4,5-Tetrachloro naphthalene	1,2,4,5-テトラクロロナフタレン
	61	67922-21-8	1,2,4,7-Tetrachloro naphthalene	1,2,4,7-テトラクロロナフタレン
	62	67922-22-9	1,2,5,6-Tetrachloro naphthalene	1,2,5,6-テトラクロロナフタレン
	63	67922-23-0	1,2,5,7-Tetrachloro naphthalene	1,2,5,7-テトラクロロナフタレン
	64	67922-24-1	1,2,6,8-Tetrachloro naphthalene	1,2,6,8-テトラクロロナフタレン
	65	67922-25-2	1,2,3,4,5-Pentachloro naphthalene	1,2,3,4,5-ペンタクロロナフタレン
	66	67922-26-3	Naphthalene, 1,2,3,4,6-pentachloro-	1,2,3,4,6-ペンタクロロナフタレン
	67	67922-27-4	1,2,3,4,5,7-Hexachloro naphthalene	1,2,3,4,5,7-ヘキサクロロナフタレン
	68	90948-28-0	1,2,3,4,5,8-Hexachloro naphthalene	1,2,3,4,5,8-ヘキサクロロナフタレン
	69	1825-30-5	1,5-Dichloronaphthalene	1,5-ジクロロナフタレン
	70	1825-31-6	1,4-Dichloronaphthalene	1,4-ジクロロナフタレン
	71	2050-69-3	1,2-Dichloronaphthalene	1,2-ジクロロナフタレン
	72	2050-72-8	1,6-Dichloronaphthalene	1,6-ジクロロナフタレン
	73	2050-73-9	1,7-Dichloronaphthalene	1,7-ジクロロナフタレン
	74	2050-74-0	1,8-Dichloronaphthalene	1,8-ジクロロナフタレン
	75	2050-75-1	2,3-Dichloronaphthalene	2,3-ジクロロナフタレン
	76	2065-70-5	2,6-Dichloronaphthalene	2,6-ジクロロナフタレン

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	77	2198-75-6	1,3-Dichloronaphthalene	1,3-ジクロロナフタレン
	78	2198-77-8	2,7-Dichloronaphthalene	2,7-ジクロロナフタレン
	79	28699-88-9	Dichloronaphthalene	ジクロロナフタレン
	80	70776-03-3 *	Chlorinated naphthalenes	ポリ(トリヘンタ)クロロナフタレン
16.Chlordanes	1	12789-03-6	Chlordane	クロルデン
	2	3734-48-3	4,7-Methano-1H-indene, 4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-	4,5,6,7,8,8-ヘキサクロロ-3a,4,7,7a-テトラヒドロ-4,7-メタノ-1H-インデン
	3	5103-71-9	(1a,2a,3aa,4b,7b,7aa)-1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene	α-クロルデン
	4	5103-74-2	(1a,2b,3aa,4b,7b,7aa)-1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene	β-クロルデン
	5	5566-34-7	2,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene	γ-クロルデン
	6	6058-23-7	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,7,7-hexachloro-1a,1b,5,5a,6,6a-hexahydro-	2,3,4,5,7,7-ヘキサクロロ-1a,1b,5,5a,6,6a-ヘキサヒドロ-2,5-メタノ-2H-インデノ[1,2-b]オキシレン
	7	56534-03-3	1,6-Methano-1H-indene, 2,3,3a,4,5,7-hexachloro-3a,6,7,7a-tetrahydro-, (1R,3aR,6S,7S,7aR)-rel-	1,2,4,5,6,7,8,8-オクタクロロ-2,3,4a,4,7,7a-ヘキサヒドロ-4,7-メタノ-1H-インデン(別名:クロルデン又はヘプタクロル)
	8	57-74-9	1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	chlordanes, pure 1,3,4,7,8,9,10,10-オクタクロロトリシクロ[5.2.1.0(2,6)]デカ-8-エン
	9	76-44-8	heptachlor	ヘプタクロル
17.Tributyl tin compounds	1	56-35-9	Bis(tributyltin) oxide	ビス(トリブチルスズ) = オキシド
	2	1983-10-4 *	Tributyltin fluoride	トリブチルスズ = フルオリド
	3	2155-70-6 *	Tributyltin methacrylate	トリブチルスズ = メタクリレート
	4	4342-36-3 *	Tributyltin benzoate	トリブチルスズ = ベンゾエート
	5	1461-22-9 *	Tributyltin chloride	トリブチルスズ = クロリド
	6	24124-25-2 *	Tributyltin linoleate	トリブチルスズ = リノレート
	7	85409-17-2 *	Tributyltin naphthenate	トリブチルスズ = ナフテナート
18.Phenylenediamines	1	15017-02-4	1,4-Benzenediamine, N,N'-bis(2-methylphenyl)-	N,N'-ジ(o-トリル)-p-フェニレンジアミン
	2	27417-40-9	1,4-Benzenediamine, N,N'-bis(methylphenyl)-	N,N'-ジトリル-p-フェニレンジアミン(別名N-モノメチルフェニル-N'-モノメチルフェニル-p-フェニレンジアミン)
	3	28726-30-9	1,4-Benzenediamine, N,N'-bis(dimethylphenyl)-	N,N'-ジキシリル-p-フェニレンジアミン
	4	620-91-7	1,4-Benzenediamine, N,N'-bis(4-methylphenyl)-	N,N'-ジ(p-トリル)-p-フェニレンジアミン
	5	63302-30-7		N-(3-メチルフェニル)-N'-(4-メチルフェニル)-1,4-フェニレンジアミン
	6	63302-32-9		N-(2-メチルフェニル)-N'-(3-メチルフェニル)-1,4-フェニレンジアミン
	7	63302-33-0		N-(2-メチルフェニル)-N'-(4-メチルフェニル)-1,4-フェニレンジアミン
	8	63302-48-7		N,N'-ビス(3-メチルフェニル)-1,4-フェニレンジアミン
	9	67265-98-9		N,N'-ビス(2,5-ジメチルフェニル)-1,4-フェニレンジアミン
	10	68478-45-5	1,4-Benzenediamine, N,N'-mixed tolyl and xylyl derivs.	N,N'-ジトリル-p-フェニレンジアミン(異性体混合物)

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	11	70290-05-0	1,4-Benzenediamine, N-(dimethylphenyl)-N'-(methylphenyl)-	N-トリル-N'-キシリル-p-フェニレンジアミン
	12	76154-76-2		N,N'-ビス(2,4-ジメチルフェニル)-1,4-フェニレンジアミン
26. Biphenyl-4-ylamine and salts	1	92-67-1	Biphenyl-4-ylamine	4-アミノビフェニル
	2	-	Biphenyl-4-ylamine salts	4-アミノビフェニルの塩
27. β-naphthylamine and salts	1	91-59-8	2-Naphthalenamine	β-ナフチルアミン
	2	-	2-Naphthalenamine salts	β-ナフチルアミンの塩
28. 4-nitrobiphenyl and salts	1	92-93-3	4-nitrobiphenyl	4-ニトロビフェニル
	2	-	4-nitrobiphenyl salts	4-ニトロビフェニルの塩
29. Benzidine and salts	1	92-87-5	[1,1'-Biphenyl]-4,4'-diamine	ベンジジン
	2	-	[1,1'-Biphenyl]-4,4'-diamine salts	ベンジジンの塩
31. Perfluorooctanesulfonic Acid and salts	1	1763-23-1	Perfluoro(octane-1-sulfonic acid)	ペルフルオロ(オクタン-1-スルホン酸)
	2	2795-39-3	Potassium perfluorooctane-1-sulfonate	ペルフルオロオクタンスルホン酸カリウム
	3	29457-72-5	Lithium perfluorooctane-1-sulfonate	ペルフルオロオクタンスルホン酸リチウム
	4	29081-56-9	Ammonium perfluorooctane-1-sulfonate	ペルフルオロオクタンスルホン酸アンモニウム
	5	70225-14-8	Compound of 2,2'-iminodiethanol and perfluorooctane-1-sulfonic acid (1:1)	ペルフルオロオクタンスルホン酸ジエタノールアンモニウム
	6	56773-42-3	Tetraethylammonium perfluorooctane-1-sulfonate	ペルフルオロオクタンスルホン酸テトラエチルアンモニウム
	7	251099-16-8	Didecan-1-yl(dimethyl)ammonium perfluorooctane-1-sulfonate	ペルフルオロオクタンスルホン酸ジデシルジメチルアンモニウム
32. Perfluoro-n-octanesulfonyl Fluoride(PFOSF)	1	307-35-7	Perfluoro-n-octanesulfonyl Fluoride	ペルフルオロオクタンスルホニルフルオリド
	2	4151-50-2 *	N-Ethylperfluorooctane sulfonamide	N-エチルペルフルオロオクタンスルホンアミド
	3	31506-32-8 *	N-Methylperfluorooctane sulfonamide	N-メチルペルフルオロオクタンスルホンアミド
	4	1691-99-2 *	N-Ethyl-N-(2-hydroxyethyl)perfluorooctane-1-sulfonamide	N-エチルN-(2-ヒドロキシエチル)ペルフルオロオクタンスルホンアミド
	5	24448-09-7 *	N-(2-Hydroxyethyl)-N-methylperfluorooctane-1-sulfonamide	N-(2-ヒドロキシエチル)-N-メチルペルフルオロオクタンスルホンアミド
38. Polybrominated Biphenyls(PBB)	1	36355-01-8	Hexabromo-1,1'-biphenyl	ヘキサブロモ-1,1'-ビフェニル (別名: 六臭化ビフェニル)
	2	27858-07-7 *	ar,ar,ar,ar,ar',ar',ar',ar'-Octabromobiphenyl	ar,ar,ar,ar,ar',ar',ar',ar'-オクタブロモビフェニル (別名: 八臭化ビフェニル)
	3	13654-09-6 *	Decabromodiphenyl	デカブロモジフェニル (別名: 十臭化ビフェニル)
43. Endosulfan(betaenzoepin)	1	115-29-7	1,9,10,11,12,12-Hexachloro-5-oxo-4,6-dioxo-5lambda(4)-thiatricyclo[7.2.1.0(2,8)]dodec-10-ene	1,9,10,11,12,12-ヘキサクロ-5-オキソ-4,6-ジオキサ-5λ(4)-チアトリシクロ[7.2.1.0(2,8)]ドデカ-10-エン
	2	959-98-8	alpha-Benzoepin	6,7,8,9,10,10-ヘキサクロ-1,5,5a,6,9,9a-ヘキサヒドロ-6,9-メタノ-2,4,3-ベンゾジオキサチエピン = 3-オキシド (α-体)
	3	33213-65-9	beta-Benzoepin	6,7,8,9,10,10-ヘキサクロ-1,5,5a,6,9,9a-ヘキサヒドロ-6,9-メタノ-2,4,3-ベンゾジオキサチエピン = 3-オキシド (β-体)
44. Hexabromocyclododecane(HBCD)	1	25637-99-4	Hexabromocyclododecane	ヘキサブロモシクロドデカン
	2	3194-55-6	1,2,5,6,9,10-Hexabromocyclododecane	1,2,5,6,9,10-ヘキサブロモシクロドデカン
	3	4736-49-6	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	4	65701-47-5	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	5	134237-50-6	rel-(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	rel-(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	6	134237-51-7	rel-(1R,2S,5R,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	rel-(1R,2S,5R,6R,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	7	134237-52-8	rel-(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	rel-(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	8	138257-17-7	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	9	138257-18-8	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	10	138257-19-9	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	11	169102-57-2	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	12	678970-15-5	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	13	678970-16-6	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	14	678970-17-7	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-ヘキサブロモシクロドデカン
	15	3194-57-8 *	1,2,5,6-Tetrabromocyclooctane	1,2,5,6-テトラブロモシクロオクタン
45.Pentachlorophenol(PCP) and its salts or esters	1	87-86-5	2,3,4,5,6-Pentachlorophenol	2,3,4,5,6-ペンタクロロフェノール
	2	131-52-2	Sodium Pentachlorophenate	ペンタクロロフェノールナトリウム
	3	3772-94-9	Pentachlorophenyl laurate	ペンタクロロフェニルラウレート／ペンタクロロフェノール
	4	27735-64-4	Sodium pentachlorophenate monohydrate	ペンタクロロフェノール (別名PCP) 及びそのナトリウム塩
	5	1825-21-4 *	pentachloroanisole	ペンタクロロアニソール
46.Short chain chlorinated paraffins (C10-13)(SCCPs)	1	18993-26-5	Undecane, 1,1,1,3,5,7,9,11,11-nonachloro-	1,1,1,3,5,7,9,11,11-ノナクロロウンデカン
	2	36312-81-9	Undecane, octachloro-	オクタクロロウンデカン
	3	219697-10-6	Undecane, heptachloro-	ヘプタクロロウンデカン
	4	219697-11-7	Undecane, nonachloro-	ノナクロロウンデカン
	5	221174-07-8	Undecane, 1,2,10,11,?,?,?,?-octachloro-	1,2,10,11,?,?,?,?-オクタクロロウンデカン
	6	276673-33-7	Undecane, decachloro-	デカクロロウンデカン
	7	601523-20-0	Undecane, 1,1,1,3,6,7,10,11-octachloro-	1,1,1,3,6,7,10,11-オクタクロロウンデカン
	8	601523-25-5	Undecane, 1,1,1,3,9,11,11,11-octachloro-	1,1,1,3,9,11,11,11-オクタクロロウンデカン
	9	85535-84-8	Chloroalkane(C10-13)	クロロアルカン (C = 10 ~ 13)
	10	68920-70-7	Alkanes, C6-18, chloro	塩素化パラフィン (短鎖)
	11	71011-12-6	Alkanes, C12-13, chloro	塩素化パラフィン (短鎖)
	12	85536-22-7	Alkanes, C12-14, chloro	塩素化パラフィン (短鎖)
	13	85681-73-8	Alkanes, C10-14, chloro	塩素化パラフィン (短鎖)
	14	108171-26-2	Alkanes, C10-12, chloro	塩素化パラフィン (短鎖)
48.Perfluorooctanoic acid(PFOA), its salts	1	335-67-1 *	Perfluorooctanoic acid	ペルフルオロオクタン酸(PFOA)

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	2	45285-51-6 *	Perfluorooctanoate (conjugate base of the free acid)	ペルフルオロオクタノート(PFO)
49.PFOA-related compounds	1	507-63-1 *	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-Heptadecafluoro-8-iodooctane	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-ヘプタデカフルオロ-8-ヨドオクタン (別名: パーフルオロオクチルイオダイド)
	2	678-39-7 *	2-(perfluorooctyl)ethanol	2-(ペルフルオロオクチル) エタノール
	3	1996-88-9 *	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluorodecyl methacrylate	2-(ペルフルオロオクチル) エチル = メタクリレート
	4	27905-45-9 *	1,1,2,2-Tetrahydroperfluorodecyl acrylate	ペンタフルオロデシルアクリレート
	5	85631-54-5 *	2-Propenoic acid, gamma-omega-perfluoro-C8-14-alkyl esters	α-[2-(アクリロイルオキシ) エチル]-ω-フルオロペルフルオロ (ポリ (2~7) エチレン)
Non-exhaustive list of 48/49	1	others *	① Non-exhaustive list deliberated by the Stockholm Convention on Persistent Organic Pollutants (UNEP/POPS/POPRC.13/INF/6/Add.1) http://chm.pops.int/TheConvention/POPsReviewCommittee/Meetings/POPRC13/MeetingDocuments/tabid/6024/Default.aspx http://www.env.go.jp/council/05hoken/s9.pdf (第197回中央環境審議会環境保健部会化学物質審査小委員会資料) ② Chemical substances listed in the list of organofluorine compounds prepared by related organizations and other countries (OECD, Canada, Sweden, etc.) http://www.env.go.jp/council/05hoken/s1-3betu2.pdf	
55.Hydrochlorofluorocarbon(HCFC)	1	75-43-4	HCFC-21	ジクロロフルオロメタン
	2	75-45-6	HCFC-22	クロロジフルオロメタン
	3	593-70-4	HCFC-31	クロロフルオロメタン
	4	354-11-0 354-14-3 134237-32-4	HCFC-121	テトラクロロフルオロエタン
	5	354-15-4 134237-33-5	HCFC-122	トリクロロジフルオロエタン
	6	354-23-4 34077-87-7	HCFC-123	ジクロロトリフルオロエタン
	7	354-25-6 2837-89-0 63938-10-3 811-95-0	HCFC-124	クロロテトラフルオロエタン 2-クロロ-1,1,1,2-テトラフルオロエタン
	8	27154-33-2 134237-34-6	HCFC-131	トリクロロフルオロエタン
	9	25915-78-0	HCFC-132	ジクロロジフルオロエタン
	10	75-88-7 421-04-5 431-07-2	HCFC-133	クロロトリフルオロエタン 2-クロロ-1,1,1-トリフルオロエタン
	11	430-57-9 25167-88-8	HCFC-141	ジクロロフルオロエタン 1,2-ジクロロ-1-フルオロエタン
	12	1717-00-6	HCFC-141b	1,1-ジクロロ-1-フルオロエタン
	13	338-64-7 25497-29-4	HCFC-142	クロロジフルオロエタン
	14	75-68-3	HCFC-142b	1-クロロ-1,1-ジフルオロエタン
	15	762-50-5 1615-75-4 110587-14-9	HCFC-151	クロロフルオロエタン 1-クロロ-1-フルオロエタン
	16	134237-35-7	HCFC-221	ヘキサクロロフルオロプロパン
	17	134237-36-8	HCFC-222	ペンタクロロジフルオロプロパン
	18	134237-37-9	HCFC-223	テトラクロロトリフルオロプロパン
	19	127564-91-4 134237-38-0	HCFC-224	トリクロロテトラフルオロプロパン
	20	422-44-6 422-48-0 431-86-7	HCFC-225	ジクロロペンタフルオロプロパン
	21	422-56-0	HCFC-225ca	3,3-ジクロロ-1,1,1,2,2-ペンタフルオロプロパン
	22	507-55-1	HCFC-225cb	1,3-ジクロロ-1,1,2,2,3-ペンタフルオロプロパン
	23	422-57-1 134308-72-8	HCFC-226	クロロヘキサフルオロプロパン

Agent group	No.	CAS No.	Substance name (English)	Substance name (Japanese)
	24	134190-48-0	HCFC-231	ペンタクロロフルオロプロパン
	25	127564-82-3 134237-39-1	HCFC-232	テトラクロロジフルオロプロパン
	26	134237-40-4	HCFC-233	トリクロロトリフルオロプロパン
	27	127564-83-4	HCFC-234	ジクロロテトラフルオロプロパン
	28	134237-41-5	HCFC-235	クロロペンタフルオロプロパン
	29	134190-49-1	HCFC-241	テトラクロロフルオロプロパン
	30	127564-90-3 134237-42-6	HCFC-242	トリクロロジフルオロプロパン
	31	134237-43-7	HCFC-243	ジクロロトリフルオロプロパン
	32	134190-50-4	HCFC-244	クロロテトラフルオロプロパン
	33	818-99-5 134190-51-5	HCFC-251	トリクロロフルオロプロパン
	34	134237-44-8	HCFC-253	クロロトリフルオロプロパン
	35	7799-56-6 134190-52-6 134237-45-9	HCFC-261	ジクロロフルオロプロパン
	36	102738-79-4 134190-53-7	HCFC-262	クロロジフルオロプロパン
	37	134190-54-8	HCFC-271	クロロフルオロプロパン
56. Perfluorohexane sulfonic acid (PFHxS) and its salts and PFHxS-related	1	335-46-4	Perfluorohexane-1-sulfonic acid	ペルフルオロ（ヘキサン - 1 - スルホン酸）又はその塩
	2	93572-72-6	-	ペルフルオロ（アルカンスルホン酸）（構造が分枝であって、炭素数が6のものに限る。）又はその塩
57. UV-328		25973-55-1	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-bis(2-methylbutan-2-yl)phenol (UV-328)	2-(2H-1,2,3-ベンゾトリアゾール-2-イル)-4,6-ビス(2-メチルブタン-2-イル)フェノール (別名: UV-328)
58. Dechlorane Plus	1	13560-89-9	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-dimethanodibenzo[a,e][8]annulene (Dechlorane Plus)	1,2,3,4,7,8,9,10,13,13,14,14-ドデカクロロ-1,4,4a,5,6,6a,7,10,10a,11,12,12a-ドデカヒドロ-1,4:7,10-ジメタノジベンゾ[a,e][8]アヌレン (別名: デクロランプラス)
	2	135821-03-3	Syn-isomer	シン型異性体
	3	135821-74-8	Anti-isomer	アンチ型異性体

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Examples of Substances Subject to EU Standards Concerning Restricted Substances

Agent group	No.	CAS No.	Substance name (English)
1. Mercury/Mercury compounds	1	10031-18-2	MERCURY (I) BROMIDE
	2	10045-94-0	Nitric acid, mercury(2+) salt
	3	10048-99-4	barium tetraiodomercurate
	4	100-56-1	phenylmercury chloride
	5	100-57-2	Mercury, hydroxyphenyl-
	6	10112-91-1	Mercury chloride (Hg ₂ Cl ₂)
	7	10124-48-8	Mercury amide chloride (Hg(NH ₂)Cl)
	8	102-98-7	dihydrogen [orthoborato(3-)-O]phenylmercurate(2-)
	9	10415-75-5	Nitric acid, mercury(1+) salt
	10	10451-12-4	phosphoric acid, mercury salt
	11	1071-39-2	Mercury, bis(1-methylethyl)-
	12	107-26-6	bromoethylmercury
	13	107-27-7	ethylmercury chloride
	14	115-09-3	chloromethylmercury
	15	1184-57-2	methylmercury hydroxide
	16	1191-80-6	9-Octadecenoic acid (9Z)-, mercury(2+) salt
	17	12068-90-5	Mercury telluride (HgTe)
	18	12344-40-0	mercury silver iodide
	19	1273-75-2	Ferrocene, (chloromercurio)-
	20	129-16-8	Mercury, (2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxy-, disodium salt
	21	13257-51-7	mercury bis(trifluoroacetate)
	22	1335-31-5	Mercury cyanide oxide (Hg ₂ (CN) ₂ O)
	23	13444-75-2	mercuric chromate
	24	1344-48-5	Mercury sulfide (HgS)
	25	13464-28-3	Phosphoric acid, mercury(2+) salt (2:3)
	26	13465-33-3	mercury(1+) bromate
	27	13766-44-4	MERCURY SULFATE
	28	13876-85-2	Mercurate(2-), tetraiodo-, dicopper(1+), (T-4)-
	29	138-85-2	Mercurate(1-), (4-carboxylatophenyl)hydroxy-, sodium
	30	13932-02-0	Perchloric acid, mercury(1+) salt
	31	13967-25-4	dimercury difluoride
	32	14110-97-5	Sodium chloro(4-sulfonatophenyl)mercurate(1-)
	33	143-36-2	iodomethylmercury

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Agent group	No.	CAS No.	Substance name (English)
	34	14376-09-1	Mercury, diamminedichloro-, (T-4)-
	35	14459-36-0	mercury(II) selenite
	36	14836-60-3	Nitric acid, mercury(1+)salt, hydrate
	37		
	38	15385-57-6	dimercury diiodide
	39	15385-58-7	Mercury bromide (Hg ₂ Br ₂)
	40	15829-53-5	Mercury oxide (Hg ₂ O)
	41	1600-27-7	Acetic acid, mercury(2+) salt
	42	20601-83-6	Mercury selenide (HgSe)
	43	21908-53-2	Mercury oxide (HgO)
	44	2440-34-8	4-Methyl-N-phenyl-N-phenylmercurybenzenesulfonamide
	45	2440-40-6	Chloro(propan-1-yl)mercury
	46	2440-45-1	bis(ethylmercury) hydrogen phosphate
	47	26522-91-8	mercury bromate
	48	27228-67-7	Mercurate(2-), tetraiodo-, copper(2+) (1:1), (T-4)-
	49	27575-47-9	mercury fluoride
	50	27685-51-4	Cobaltate(2-), tetrakis(thiocyanato-kN)-, mercury(2+) (1:1), (T-4)-
	51	28953-04-0	mercuric oxyfluoride
	52	3076-91-3	chloro[p-[(2-hydroxy-1-naphthyl)azo]phenyl]mercury
	53	31065-88-0	Mercury cyanide hydroxide (Hg(CN)(OH))
	54	3294-60-8	phenyl(tribromomethyl)mercury
	55	33770-60-4	Mercury, [3,6-dichloro-4,5-di(hydroxy-kO)-3,5-cyclohexadiene-1,2-dionato(2-)]-
	56	3570-80-7	Mercury, bis(acetato-kO)[m-(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',7'-diyl)]di-
	57	486-67-9	mersalyl acid
	58	502-39-6	1-cyano-3-(methylmercurio)guanidine
	59	506-83-2	bromomethylmercury
	60	51622-02-7	Mercury, diheptyl-
	61	54129-03-2	Mercury, [N-(2-methylphenyl)benzenesulfonamidato-N]phenyl-
	62	543-63-5	Butan-1-yl(chloro)mercury
	63	54-64-8	Mercurate(1-), ethyl[2-(mercapto-kS)benzoato(2-)-kO]-, sodium
	64	55-68-5	Mercury, (nitrate-kO)phenyl-
	65	583-15-3	mercury dibenzoate

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Agent group	No.	CAS No.	Substance name (English)
	66	587-85-9	Mercury, diphenyl-
	67	591-89-9	dipotassium tetracyanomercurate
	68	592-04-1	Mercury cyanide (Hg(CN) ₂)
	69	5964-24-9	sodium timerfonate
	70	5970-32-1	[salicylato(2-)-O ₁ ,O ₂]mercury
	71	59-85-8	Mercurate(1-), (4-carboxylatophenyl)chloro-, hydrogen
	72	62-38-4	Mercury, (acetato-kO)phenyl-
	73	62638-02-2	Cyclohexanebutanoic acid, mercury(2+) salt
	74	6283-24-5	Mercury, (acetato-kO)(4-aminophenyl)-
	75	628-85-3	Mercury, dipropyl-
	76	628-86-4	Fulminic acid, mercury(2+) salt
	77	631-60-7	dimercury di(acetate)
	78	63937-14-4	GLUCONATE, MERCURY
	79	691-88-3	Mercury, bis(1-methylpropyl)-
	80	73548-15-9	Sodium hydroxy(4-sulfonatophenyl)mercurate(1-)
	81	7439-97-6	Mercury
	82	7487-94-7	Mercury chloride (HgCl ₂)
	83	7546-30-7	Mercury chloride (HgCl)
	84	7616-83-3	Perchloric acid, mercury(2+) salt
	85	7774-29-0	Mercury iodide (HgI ₂)
	86	7782-66-3	Mercury(II) phosphate
	87	7782-86-7	Nitric acid, mercury(1+) salt, monohydrate
	88	7783-30-4	mercury iodide
	89	7783-33-7	Mercurate(2-), tetraiodo-, dipotassium, (T-4)-
	90	7783-34-8	Nitric acid, mercury(2+) salt, monohydrate
	91	7783-35-9	Sulfuric acid, mercury(2+) salt (1:1)
	92	7783-36-0	Sulfuric acid, dimercury(1+) salt
	93	7783-39-3	Mercury fluoride (HgF ₂)
	94	7784-03-4	mercury disilver tetraiodide
	95	7784-37-4	mercury hydrogenarsenate
	96	7789-10-8	mercury dichromate
	97	7789-47-1	Mercury bromide (HgBr ₂)
	98	8003-05-2	Mercury, hydroxyphenyl-, mixture with (nitrate-O)phenyl mercury
	99	13294-23-0	bis[(trimethylsilyl)methyl]mercury

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Agent group	No.	CAS No.	Substance name (English)
	100	51622-02-7	Mercury, diheptyl-
	101	593-74-8	Mercury, dimethyl-
	102	627-44-1	Mercury, diethyl-
	103	628-85-3	Mercury, dipropyl-
	104	629-35-6	Mercury, dibutyl-
	105	691-88-3	Mercury, bis(1-methylpropyl)-
	106	—	Other mercury compounds
2. Lead/Lead compounds	1	10031-13-7	lead arsenite
	2	10031-22-8	Lead bromide (PbBr ₂)
	3	10099-74-8	Nitric acid, lead(2+) salt
	4	10099-76-0	Silicic acid (H ₂ SiO ₃), lead(2+) salt (1:1)
	5	10099-79-3	Lead vanadium oxide (PbV ₂ O ₆)
	6	10101-63-0	Lead iodide (PbI ₂)
	7	10190-55-3	Lead molybdenum oxide (PbMoO ₄)
	8	10214-39-8	Boric acid (HBO ₂), lead(2+) salt, monohydrate
	9	103427-19-6	1-Propanesulfonic acid, 2-hydroxy-, lead(2+) salt (2:1)
	10	1072-35-1	Octadecanoic acid, lead(2+) salt
	11	11113-70-5	Silicic acid, chromium lead salt
	12	11119-70-3	Lead chromate
	13	11120-22-2	Silicic acid, lead salt
	14	114601-64-8	1-Propanesulfonic acid, 2-hydroxy-, lead salt
	15	1153-06-6	chlorotriphenylplumbane
	16	12013-69-3	Plumbate (PbO ₄ ⁻), calcium (1:2), (T-4)-
	17	12029-23-1	hafnium lead trioxide
	18	12034-30-9	Plumbate (PbO ₂ ⁻), disodium
	19	12034-88-7	Lead niobium oxide (PbNb ₂ O ₆)
	20	12036-76-9	Lead oxide sulfate (Pb ₂ O(SO ₄))
	21	12059-89-1	Lead oxide (Pb ₂ O)
	22	12060-00-3	Lead titanium oxide (PbTiO ₃)
	23	12060-01-4	Lead zirconium oxide (PbZrO ₃)
	24	12065-68-8	Lead tantalum oxide (PbTa ₂ O ₆)
	25	12069-00-0	Lead selenide (PbSe)
	26	12202-17-4	Lead oxide sulfate (Pb ₄ O ₃ (SO ₄))
	27	12266-38-5	Antimony, compd. with lead (1:1)

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Examples of Substances Subject to EU Standards Concerning Restricted Substances

Agent group	No.	CAS No.	Substance name (English)
	28	12275-07-9	1,3,5,7,9-Pentaoxa-2,4,6,8-tetraplumbacyclotridec-11-ene-2,4,6,8-tetraylidene, 10,13-dioxo-, (1Z)-
	29	12578-12-0	Lead, bis(octadecanoato)dioxotri-
	30	12608-25-2	Basic lead sulfite
	31	12656-85-8	C.I. Pigment Red 104
	32	12676-62-9	Lead borate
	33	12774-29-7	Calcium plumbate
	34	130596-72-4	Hexanoic acid, 3,5-dimethyl-, lead(2+) salt
	35	1309-60-0	Lead oxide (PbO ₂)
	36	1311-11-1	hydroxylead
	37	1314-41-6	Lead oxide (Pb ₃ O ₄)
	38	1314-87-0	Lead sulfide (PbS)
	39	1314-91-6	Lead telluride (PbTe)
	40	1317-36-8	Lead oxide (PbO)
	41	1319-46-6	Lead, bis[carbonato(2-)]dihydroxytri-
	42	1335-25-7	Lead oxide
	43	1335-32-6	Lead, bis(acetato-kO)tetrahydroxytri-
	44	13424-46-9	Lead azide (Pb(N ₃) ₂)
	45	13427-42-4	lead(II) carbonate
	46	1344-36-1	lead(II) hydroxycarbonate
	47	1344-37-2	C.I. Pigment Yellow 34
	48	1344-38-3	Basic lead chromate orange
	49	13453-62-8	Perchloric acid, lead(2+) salt (2:1), trihydrate
	50	13510-89-9	Antimony lead oxide (Sb ₂ Pb ₃ O ₈)
	51	13637-76-8	Perchloric acid, lead(2+) salt
	52	13814-96-5	Borate(1-), tetrafluoro-, lead(2+) (2:1)
	53	14720-53-7	Boric acid (HBO ₂), lead(2+) salt
	54	14931-82-9	Ethylenediaminetetraacetic acid disodium lead salt
	55	15187-16-3	Lead, [29H,31H-phthalocyaninato(2-)-kN ₂₉ ,kN ₃₀ ,kN ₃₁ ,kN ₃₂]-, (SP-4-1)-
	56	15245-44-0	1,3-Benzenediol, 2,4,6-trinitro-, lead(2+) salt (1:1)
	57	15282-88-9	bis(pentane-2,4-dionato-O,O')lead
	58	15306-30-6	lauric acid, lead salt
	59	15347-57-6	Acetic acid, lead salt
	60	15516-84-4	p-Toluic acid, lead(4+) salt

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Agent group	No.	CAS No.	Substance name (English)
	61	15696-43-2	Octanoic acid, lead salt
	62	15739-80-7	Sulfuric acid, lead salt
	63	15748-73-9	Lead, bis[2-(hydroxy-kO)benzoato-kO]-, (T-4)-
	64	15773-52-1	lead(2+) decanoate
	65	15773-53-2	lead dihexanoate
	66	15773-55-4	Dodecanoic acid, lead(2+) salt
	67	15773-56-5	lead dipalmitate
	68	15845-52-0	Phosphoric acid, lead(2+) salt (1:1)
	69	15907-04-7	lead benzoate
	70	16038-76-9	Phosphonic acid, lead salt
	71	16040-38-3	Lead phosphate
	72	16450-50-3	diantimony lead tetroxide
	73	16996-40-0	Hexanoic acid, 2-ethyl-, lead salt
	74	172777-22-9	Lead N-ethyl-N-cyclohexyldithiocarbamate
	75	17570-76-2	Methanesulfonic acid, lead(2+) salt
	76	1762-26-1	Plumbane, ethyltrimethyl-
	77	1762-27-2	Plumbane, diethyldimethyl-
	78	1762-28-3	Plumbane, triethylmethyl-
	79	18454-12-1	Lead chromate oxide (Pb ₂ (CrO ₄)O)
	80	19528-55-3	lead palmitate
	81	19783-14-3	Lead hydroxide (Pb(OH) ₂)
	82	20403-42-3	decanoic acid, lead salt
	83	20534-94-5	Phenol, lead(2+) salt
	84	20837-86-9	Cyanamide, lead(2+) salt (1:1)
	85	20890-10-2	lead cyanamidate
	86	20936-32-7	lead 2,4-dihydroxybenzoate
	87	21180-26-7	Heptanoic acid, lead salt
	88	23621-79-6	Hexanoic acid, 3,5,5-trimethyl-, lead salt
	89		
	90	25510-11-6	Carbonic acid, lead(2+) salt
	91	25666-92-6	Lead sulfite
	92	25808-74-6	Silicate(2-), hexafluoro-, lead(2+) (1:1)
	93	25987-03-5	Phenol, lead salt
	94	27253-28-7	Neodecanoic acid, lead salt

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Agent group	No.	CAS No.	Substance name (English)
	95	27253-41-4	Isononanoic acid, lead salt
	96	30051-53-7	Lead, bis[bis(1-methylethyl)carbamodithioato-S,S']-, (T-4)-
	97	301-04-2	Acetic acid, lead(2+) salt
	98	301-08-6	Hexanoic acid, 2-ethyl-, lead(2+) salt
	99	34295-32-4	o-Toluic acid, lead(4+) salt
	100	35498-15-8	orthoboric acid, lead(2+) salt
	101	35837-70-8	lead bis(3,5,5-trimethylhexanoate)
	102	36501-84-5	Lead, bis(dipentylcarbamodithioato-kS,kS')-, (T-4)-
	103	3687-31-8	trilead diarsenate
	104	41234-07-5	Nonanoic acid, lead salt
	105	41453-50-3	Benzoic acid, 2,4-dihydroxy-, lead(2+) salt (2:1)
	106	41556-46-1	lead bis(piperidine-1-carbodithioate)
	107	512-26-5	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3)
	108	51317-24-9	nitroresorcinol, lead salt
	109		
	110	52337-73-2	Benzoic acid, 2-methyl-, lead(2+) salt
	111	52847-85-5	lead bis(isononanoate)
	112	546-67-8	Acetic acid, lead(4+) salt
	113	56189-09-4	Lead, bis(octadecanoato)dioxodi-
	114	57142-78-6	Lead, [1,2-benzenedicarboxylato(2-)]oxodi-
	115	58274-53-6	Benzoic acid, 4-methyl-, lead(2+) salt
	116	58405-97-3	lead bis(12-hydroxystearate)
	117	592-05-2	lead dicyanide
	118	592-87-0	Thiocyanic acid, lead(2+) salt
	119	595-89-1	tetraphenyllead
	120	598-63-0	Carbonic acid, lead(2+) salt (1:1)
	121	6080-56-4	Acetic acid, lead(2+) salt, trihydrate
	122	61790-14-5	Naphthenic acids, lead salts
	123	63399-94-0	lead(2+) heptadecanoate
	124	63400-07-7	Undecanoic acid, lead(2+) salt
	125	63400-08-8	Nonanoic acid, lead(2+) salt
	126	63568-30-9	Naphthalenesulfonic acid, diisononyl-, lead(2+) salt
	127	63653-42-9	Basic lead sulfate

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Examples of Substances Subject to EU Standards Concerning Restricted Substances

Agent group	No.	CAS No.	Substance name (English)
	128	64504-12-7	isooctanoic acid, lead salt
	129	65127-78-8	lead 12-hydroxyoctadecanoate
	130	6838-85-3	1,2-Benzenedicarboxylic acid, lead(2+) salt (1:1)
	131	69011-07-0	Lead chromate silicate (Pb ₃ (CrO ₄)(SiO ₄))
	132	69090-73-9	Lead, bis[bis(2-methylpropyl)carbamodithioato-S,S']-, (T-4)-
	133	70727-02-5	lead(2+) isooctadecanoate
	134	70995-63-0	Lead, bis(dipropylcarbamodithioato-S,S')-, (T-4)-
	135	71684-29-2	lead(2+) neodecanoate
	136	72437-77-5	Ethanesulfonic acid, 2-hydroxy-, lead(2+) salt (2:1)
	137	72586-00-6	lead bis(nonylphenolate)
	138	7319-86-0	lead(2+) octanoate
	139	7428-48-0	Octadecanoic acid, lead salt
	140	7439-92-1	Lead
	141	7446-10-8	Sulfurous acid, lead(2+) salt (1:1)
	142	7446-14-2	Sulfuric acid, lead(2+) salt (1:1)
	143	7446-27-7	Phosphoric acid, lead(2+) salt (2:3)
	144	75-74-1	Plumbane, tetramethyl-
	145	76925-97-8	Benzoic acid, 2-methyl-, lead salt
	146	7717-46-6	lead(4+) stearate
	147	7758-95-4	Lead chloride (PbCl ₂)
	148	7758-97-6	Chromic acid (H ₂ CrO ₄), lead(2+) salt (1:1) ,Lead(II) tetraoxidochromate
	149	7759-01-5	Lead tungsten oxide (PbWO ₄)
	150	7783-46-2	Lead fluoride (PbF ₂)
	151	7783-59-7	lead(IV) fluoride
	152	7784-40-9	Arsenic acid (H ₃ AsO ₄), lead(2+) salt (1:1) ,Lead(II) hydrogenarsenate
	153	78-00-2	Plumbane, tetraethyl-
	154	8012-00-8	C.I. Pigment Yellow 41
	155	814-93-7	Ethanedioic acid, lead(2+) salt (1:1)
	156	815-84-9	Butanedioic acid, 2,3-dihydroxy- (2R,3R)-, lead(2+) salt (1:1)
	157	82696-30-8	Benzenesulfonic acid, hydroxy-, lead salt
	158	84852-34-6	lead(II) isodecanoate
	159	85292-77-9	lead(2+) 4-(1,1-dimethylethyl)benzoate

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Agent group	No.	CAS No.	Substance name (English)
	160		Lead 2-(2,4,5,7-tetrabromo-3-keto-6-oxy-3H-xanthen-9-yl)-2,3,4,5-tetrachlorobenzoate
	161	873-54-1	lead dibenzoate
	162	87835-32-3	Pentanoic acid, 2-propyl-, lead(2+) salt
	163	9008-26-8	Resin acids and Rosin acids, lead salts
	164	90583-37-2	Sulfurous acid, lead(2+) salt, basic
	165	91187-55-2	Benzoic acid, 2-butyl-, lead(2+) salt
	166	93892-65-0	Carbamodithioic acid, ethylphenyl-, lead(2+) salt
	167	93894-48-5	lead(2+) neononanoate
	168	93894-49-6	lead(2+) neoundecanoate
	169	93965-29-8	lead bis(isoundecanoate)
	170	93966-38-2	lead tetracosanoate
	171	93966-74-6	lead pentadecanoate
	172	93981-67-0	lead(II) isooctanoate
	173	95860-12-1	Methanesulfonic acid, lead salt
	174	95892-13-0	lead(2+) isohexadecanoate
	175	97952-39-1	7-methyloctanoic acid, lead salt
	176	—	Other lead compounds
3. Cadmium/Cadmium compounds	1	10022-68-1	Nitric acid, cadmium salt, tetrahydrate
	2	10108-64-2	Cadmium chloride (CdCl ₂)
	3	10124-36-4	Sulfuric acid, cadmium salt (1:1)
	4	10196-67-5	Tetradecanoic acid, cadmium salt
	5	10325-94-7	Nitric acid, cadmium salt
	6	10326-28-0	Perchloric acid, cadmium salt, hexahydrate
	7	12006-15-4	Cadmium arsenide (Cd ₃ As ₂)
	8	12014-28-7	Cadmium phosphide (Cd ₃ P ₂)
	9	12014-29-8	Antimony, compd. with cadmium (2:3)
	10	12139-23-0	Cadmium zirconium oxide (CdZrO ₃)
	11	12187-14-3	Cadmium niobium oxide (Cd ₂ Nb ₂ O ₇)
	12	12214-12-9	Cadmium selenide sulfide (Cd ₂ SeS)
	13	12292-07-8	Cadmium tantalum oxide (CdTa ₂ O ₆)
	14	12626-36-7	Cadmium selenide sulfide (Cd(Se,S))
	15	1306-19-0	Cadmium oxide (CdO)
	16	1306-23-6	Cadmium sulfide (CdS)
	17	1306-24-7	Cadmium selenide (CdSe)

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Examples of Substances Subject to EU Standards Concerning Restricted Substances

Agent group	No.	CAS No.	Substance name (English)
	18	1306-25-8	Cadmium telluride (CdTe)
	19	13464-92-1	Cadmium bromide, tetrahydrate
	20	13477-21-9	cadmium sulfate tetrahydrate
	21	13701-66-1	diboron tricadmium hexaoxide
	22	13972-68-4	Cadmium molybdenum oxide (CdMoO4)
	23	14239-68-0	Cadmium, bis(diethylcarbamo-dithioato-kS,kS')-, (T-4)-
	24	14312-00-6	cadmium chromate
	25	14402-75-6	Cadmate(2-), tetrakis(cyano-kC)-, dipotassium, (T-4)-
	26	14486-19-2	Borate(1-), tetrafluoro-, cadmium (2:1)
	27	14518-94-6	cadmium bromate
	28	14689-45-3	bis(pentane-2,4-dionato-O,O')cadmium
	29	14949-59-8	cadmium bis(piperidine-1-carbodithioate)
	30	15244-35-6	cadmium sulfate hydrate
	31	17010-21-8	cadmium hexafluorosilicate(2-)
	32	17329-48-5	Undecanoic acid, cadmium salt
	33	18991-05-4	cadmium diphenolate
	34	21041-95-2	Cadmium hydroxide (Cd(OH)2)
	35	2191-10-8	Octanoic acid, cadmium salt
	36	2223-93-0	Octadecanoic acid, cadmium salt
	37	22465-18-5	cadmium sulfate (8hydrate)
	38	22750-54-5	Chloric acid, cadmium salt
	39	2605-44-9	Dodecanoic acid, cadmium salt
	40	27476-27-3	Benzoic acid, methyl-, cadmium salt
	41	2847-16-7	Decanoic acid, cadmium salt
	42	29736-89-8	hydroxycadmium hydrate
	43	3026-22-0	Benzoic acid, cadmium salt
	44	30304-32-6	cadmium isooctanoate
	45	30363-28-1	Disodium cadmium ethylenediamineacetate
	46	31215-94-8	cadmium (1,1-dimethylethyl)benzoate
	47	35658-65-2	Cadmium chloride (CdCl2), monohydrate
	48	35803-35-1	disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cadmate(2-)
	49	36211-44-6	cadmium 3,5,5-trimethylhexanoate
	50	38517-19-0	cadmium(2+) (R)-12-hydroxyoctadecanoate
	51	4167-05-9	Benzoic acid, 4-(1,1-dimethylethyl)-, cadmium salt

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Agent group	No.	CAS No.	Substance name (English)
	52	4464-23-7	cadmium diformate
	53	506-82-1	dimethylcadmium
	54	5112-16-3	Nonanoic acid, cadmium salt
	55	51222-60-7	Boric acid, cadmium salt
	56	513-78-0	Carbonic acid, cadmium salt (1:1)
	57	52337-78-7	Benzoic acid, 2-methyl-, cadmium salt
	58	542-83-6	Cadmium cyanide (Cd(CN) ₂)
	59	543-90-8	Acetic acid, cadmium salt
	60	55700-14-6	Cyclohexanebutanoic acid, cadmium salt
	61	5743-04-4	Acetic acid, cadmium salt, dihydrate
	62	58339-34-7	C.I. Pigment Red 108
	63	592-02-9	Cadmium, diethyl-
	64	61789-34-2	Naphthenic acids, cadmium salts
	65	61951-96-0	Neodecanoic acid, cadmium salt
	66	62149-56-8	cadmium bis(heptadecanoate)
	67	63400-09-9	cadmium pentadecanoate
	68	6427-86-7	Hexadecanoic acid, cadmium salt
	69	68092-45-5	Benzoic acid, 3-methyl-, cadmium salt
	70	69121-20-6	Octadecanoic acid, 12-hydroxy-, cadmium salt (2:1)
	71		
	72	72589-96-9	Cadmium chloride, dihydrate
	73	7440-43-9	Cadmium
	74	7789-42-6	Cadmium bromide (CdBr ₂)
	75	7790-78-5	Cadmium chloride (CdCl ₂), hydrate (2:5)
	76	7790-79-6	Cadmium fluoride (CdF ₂)
	77	7790-80-9	Cadmium iodide (CdI ₂)
	78	7790-84-3	Sulfuric acid, cadmium salt (1:1), hydrate (3:8)
	79	7790-85-4	Cadmium tungsten oxide (CdWO ₄)
	80	79490-00-9	cadmium perchlorate
	81		
	82	8048-07-5	C.I. Pigment Yellow 35
	83	84696-56-0	cadmium isononanoate
	84	84878-36-4	cadmium isooctadecanoate
	85	84878-37-5	cadmium tert-decanoate

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Agent group	No.	CAS No.	Substance name (English)
	86	84878-48-8	cadmium bis(nonylphenolate)
	87	84878-51-3	cadmium bis(octylphenolate)
	88		
	89	87835-30-1	Pentanoic acid, 2-propyl-, cadmium salt
	90	89759-80-8	cadmium acetate
	91	93820-02-1	carbonic acid, cadmium salt
	92	93894-07-6	cadmium bis(o-nonylphenolate)
	93	93894-08-7	Phenol, 4-nonyl-, cadmium salt
	94	93894-09-8	cadmium bis[p-(1,1,3,3-tetramethylbutyl)phenolate]
	95	93965-24-3	cadmium isodecanoate
	96	93965-30-1	cadmium bis(isoundecanoate)
	97	93983-65-4	cadmium dimethylhexanoate
	98	95892-12-9	cadmium isohexadecanoate
	99	97259-82-0	cadmium diisobutyl dimaleate
	100	—	Other cadmium compounds
	4. Chromium VI compounds	1	10022-48-7
2		10034-82-9	Chromic acid (H ₂ CrO ₄), disodium salt, tetrahydrate
3		10060-08-9	Chromic acid (H ₂ CrO ₄), calcium salt (1:1), dihydrate
4		10294-40-3	Chromic acid (H ₂ CrO ₄), barium salt (1:1)
5		10588-01-9	Chromic acid (H ₂ Cr ₂ O ₇), disodium salt
6		12017-94-6	Chromium lanthanum oxide (CrLaO ₃)
7		12018-19-8	Dichromium zinc tetraoxide
8		12656-85-8	C.I. Pigment Red 104
9		1333-82-0	Chromium oxide (CrO ₃)
10		13423-61-5	Chromic acid (H ₂ CrO ₄), magnesium salt (1:1)
11		1344-37-2	C.I. Pigment Yellow 34
12		13444-75-2	mercuric chromate
13		13446-72-5	Chromic acid (H ₂ CrO ₄), dirubidium salt
14		13454-78-9	Chromic acid (H ₂ CrO ₄), dicesium salt
15		13455-25-9	Chromic acid (H ₂ CrO ₄), cobalt(2+) salt (1:1)
16		13530-65-9	Chromic acid (H ₂ CrO ₄), zinc salt (1:1)
17		13530-67-1	caesium dichromate
18		13530-68-2	Chromic acid (H ₂ Cr ₂ O ₇)
19		13548-42-0	Chromic acid (H ₂ CrO ₄), copper(2+) salt (1:1)

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Examples of Substances Subject to EU Standards Concerning Restricted Substances

Agent group	No.	CAS No.	Substance name (English)
	20	13675-47-3	copper dichromate
	21	13765-19-0	Chromic acid (H ₂ CrO ₄), calcium salt (1:1)
	22	13843-81-7	lithium dichromate
	23	14018-95-2	Chromic acid (H ₂ Cr ₂ O ₇), zinc salt (1:1)
	24	14104-85-9	magnesium dichromate
	25	14307-33-6	Chromic acid (H ₂ Cr ₂ O ₇), calcium salt (1:1)
	26	14307-35-8	Chromic acid (H ₂ CrO ₄), dilithium salt
	27	14312-00-6	cadmium chromate
	28	14507-18-7	Chromic acid (H ₂ CrO ₄), iron(2+) salt (1:1)
	29	14977-61-8	Chromium, dichlorodioxo-, (T-4)-
	30	16569-85-0	magnesium chromate
	31	18454-12-1	Lead chromate oxide (Pb ₂ (CrO ₄)O)
	32	20039-37-6	Chromic acid (H ₂ Cr ₂ O ₇), compd. with pyridine (1:2)
	33	37224-57-0	Potassium zinc chromate K ₂ O ₄ CrO ₃ 4ZnO ₃ H ₂ O
	34	37235-82-8	dibismuth dichromium nonaoxide
	35	41189-36-0	chromic acid, potassium zinc salt
	36	56320-90-2	caesium chromate
	37	56660-19-6	tetrabutylammonium, salt with chromic acid (2:1)
	38	63020-43-9	Dipotassium zinc bis(chromate) Cr ₂ K ₂ O ₈ Zn
	39	68406-65-5	copper dihydrogen bischromate
	40	7738-94-5	Chromic acid (H ₂ CrO ₄)
	41	7758-97-6	Chromic acid (H ₂ CrO ₄), lead(2+) salt (1:1)
	42	7775-11-3	Chromic acid (H ₂ CrO ₄), disodium salt
	43	7778-50-9	Chromic acid (H ₂ Cr ₂ O ₇), dipotassium salt
	44	7784-01-2	Chromic acid (H ₂ CrO ₄), disilver(1+) salt
	45	7784-02-3	silver dichromate
	46	7788-98-9	Chromic acid (H ₂ CrO ₄), diammonium salt
	47	7789-00-6	Chromic acid (H ₂ CrO ₄), dipotassium salt
	48	7789-01-7	Lithium chromate hydrate
	49	7789-06-2	Chromic acid (H ₂ CrO ₄), strontium salt (1:1)
	50	7789-07-3	Cupric dichromate dihydrate
	51	7789-09-5	Chromic acid (H ₂ Cr ₂ O ₇), diammonium salt
	52	7789-10-8	mercury dichromate
	53	7789-12-0	Chromic acid (H ₂ Cr ₂ O ₇), disodium salt, dihydrate

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Agent group	No.	CAS No.	Substance name (English)
	54	—	Other hexavalent chromium compounds
5. PBBs (polybrominated biphenyls)	1	27858-07-7	1,1'-Biphenyl, ar,ar,ar,ar,ar',ar',ar',ar'-octabromo-
	2	57422-77-2	1,1'-Biphenyl, 2,5-dibromo-
	3	59080-33-0	1,1'-Biphenyl, 2,4,6-tribromo-
	4	60108-72-7	1,1'-Biphenyl, 3,4-dibromo-
	5	64258-02-2	1,1'-Biphenyl, 2,4,4',6-tetrabromo-
	6	16400-51-4	1,1'-Biphenyl, 3,3'-dibromo-
	7	13029-09-9	1,1'-Biphenyl, 2,2'-dibromo-
	8	27753-52-2	1,1'-Biphenyl, nonabromo-
	9	59080-34-1	1,1'-Biphenyl, 2,2',5-tribromo-
	10	53592-10-2	1,1'-Biphenyl, 2,4-dibromo-
	11	59080-32-9	1,1'-Biphenyl, 2,6-dibromo-
	12	13654-09-6	1,1'-Biphenyl, 2,2',3,3',4,4',5,5',6,6'-decabromo-
	13	—	Other polybrominated biphenyls
6. PBDEs (Polybrominated diphenyl ethers)	1	32536-52-0	Benzene, 1,1'-oxybis-, octabromo deriv.
	2	6903-63-5	3,3'-Dibromodiphenyl ether
	3	83694-71-7	3,4'-Dibromodiphenyl ether
	4	53563-56-7	Dibromodiphenyl ether
	5	51452-87-0	2,2'-Dibromodiphenyl ether
	6	2050-47-7	4,4'-Dibromodiphenyl ether
	7	65075-08-3	2,4',5'-Tribromodiphenyl ether
	8	49690-94-0	Tribromodiphenyl ether
	9	103173-66-6	3,3',5,5'-Tetrabromodiphenyl ether
	10	93703-48-1	3,3',4,4'-Tetrabromodiphenyl ether
	11	5436-43-1	2,2',4,4'-Tetrabromodiphenyl ether
	12	189084-65-9	2,3,4,5,6-Pentabromodiphenyl ether
	13	35854-94-5	2,2',4,4',6,6'-Hexabromodiphenyl ether
	14	116995-33-6	2,2',3,4',5,6-Hexabromodiphenyl ether
	15	31153-30-7	Di(tribromophenyl) ether
	16	117948-63-7	2,2',3,4,4',6,6'-Heptabromodiphenyl ether
	17	116995-32-5	2,2',3,4',5,6,6'-Heptabromodiphenyl ether
	18	117964-21-3	2,2',3,3',4,4',6,6'-Octabromodiphenyl ether
	19	85446-17-9	2,2',3,3',4,4',5,5'-Octabromodiphenyl ether
	20		

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Agent group	No.	CAS No.	Substance name (English)
	21	63936-56-1	Nonabromodiphenyl ether
	22	—	Other PBDE
7. Bis(2-ethylhexyl) phthalate	1	117-81-7	Bis(2-ethylhexyl) phthalate
8. Benzyl butan-1-yl phthalate	1	85-68-7	Benzyl butan-1-yl phthalate
9. Dibutyl phthalate	1	84-74-2	Dibutyl phthalate
10. Diisobutyl phthalate	1	84-69-5	Diisobutyl phthalate
11. Short chain chlorinated paraffins (C10-13)	1	85535-84-8	Alkanes, C10-13, chloro
	2	108171-26-2	Alkanes, C10-12, chloro
	3	71011-12-6	Alkanes, C12-13, chloro
	4	—	Other short-chane paraffin chloride(C10-13)
12. Polychlorinated terphenyls	1	262-968-2	Polychlorinated terphenyls
13. Azo colorants and azo dyes that form certain aromatic comp	1	6410-30-6	N-(4-chlorophenyl)-3-hydroxy-4-[(2-methyl-5-nitrophenyl)azo]naphthalene-2-carboxamide
	2	6448-95-9	C.I. Pigment Red 22
	3	6358-87-8	Diethyl 4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[4,5-dihydro-5-oxo-1-phenyl-1H-pyrazole-3-carboxylate]
14. Dichloro[(dichlorophenyl)methyl]methylbenzene	1	76253-60-6	Dichloro[(dichlorophenyl)methyl]methylbenzene
15. Monomethyl-dichloro-diphenylmethane	1	81161-70-8	Monomethyl-dichloro-diphenylmethane
16. Monomethyl-dibromo-diphenylmethane	1	99688-47-8	Monomethyl-dibromo-diphenylmethane
17. Dibutyltin compounds (DBT)	1	818-08-6	Dibutyltin oxide
	2	683-18-1	Dibutyltin dichloride
	3	77-58-7	Dibutyltin dilaurate
	4	7324-74-5	Dibutyltin bis(benzylmaleate)
	5	78-04-6	Dibutyltin maleate
	6	1067-33-0	Dibutuyltin di(acetate)
	7	85702-74-5	Dibutylbis[(1-oxoisooctyl)oxy]stannane
	8	—	Other Dibutyltin Compounds
18. Dioctyltin compounds (DOT)	1	870-08-6	Dioctyltin oxide
	2	3542-36-7	Dioctyltin dichloride
	3	16091-18-2	Dioctyltin maleate
	4	26401-97-8	Di(n-octyl)tin bis(isooctylthioglycolate)
	5	3648-18-8	Dioctyltin dilaurates

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Agent group	No.	CAS No.	Substance name (English)
	6	22205-30-7	Bis(dodecylthio)dioctylstannane
	7	–	Other Dioctyltin Compounds
19. Tri-substituted organostannic compounds	1	1461-23-0	Tributyltin bromide
	2	56-35-9	Tributyltin oxide
	3	668-34-8	Triphenyltin
	4	639-58-7	Triphenyltin chloride
	5	76-87-9	Triphenyltin hydroxide
	6	1803-12-9	Triphenyltin N,N'-dimethyldithiocarbamate
	7	379-52-2	Triphenyltin fluoride
	8	900-95-8	Triphenyltin acetate
	9	18380-71-7	Triphenylstannyl 2,2,4,4-tetramethylpentanoate
	10	18380-72-8	Triphenylstannyl 2-isopropyl-2,3-dimethylbutanoate
	11	47672-31-1	Triphenylstannyl decanoate
	12	94850-90-5	Triphenylstannyl undecanoate
	13	7094-94-2	Triphenyltin chloroacetate
	14	2155-70-6	Tributyltin methacrylate
	15	6454-35-9	Bis(tributan-1-ylstannyl) fumarate
	16	24291-45-0	Bis(tributan-1-ylstannyl) but-2-enedioate
	17	1983-10-4	Tributan-1-yl(fluoro)stannane
	18	7304-48-5	Fluoro(triisobutyl)stannane
	19	31732-71-5	rel-(2R,3S)-Bis(tributan-1-ylstannyl) 2,3-dibromosuccinate
	20	56323-17-2	Bis(tributyl tin)2,3-dibromosuccinate
	21	56-36-0	Tributyltin acetate
	22	3090-36-6	Tributyltin laurate
	23	4782-29-0	Bis(tributyltin)phthalate
	24	6517-25-5	Tributyltin sulfamate
	25	14275-57-1	Bis(tributan-1-ylstannyl) maleate
	26	24291-45-0	Bis(tributan-1-ylstannyl) but-2-enedioate
	27	1461-22-9	Tributan-1-yl(chloro)stannane
	28	7342-38-3	Chloro(triisobutyl)stannane
	29	85409-17-2	Stannane, tributyl-, mono(naphthenoyloxy) derivatives
	30	26239-64-5	Tributan-1-ylstannyl (1R,4aR,4bR,10aR)-7-isopropyl-1,4a-dimethyl-1,2,3,4,4a,4b,5,6,10,10a-decahydrophenanthrene-1-carboxylate
	31	67772-01-4	Poly[(methyl methacrylate)-co-(octan-1-yl acrylate)-co-(tributan-1-ylstannyl methacrylate)]

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Examples of Substances Subject to EU Standards Concerning Restricted Substances

Agent group	No.	CAS No.	Substance name (English)
	32	100835-88-9	Stannane, tributyl(butylphenoxy)-
	33	13323-63-2	Dibutylbis(palmitoyloxy)stannane
	34	13435-05-7	5,5,9,9-tetrabutyl-7-[(tributylstannyl)oxy]-6,8-dioxa-7-phospha-5,9-distannatridecane 7-oxide
	35	27147-18-8	Stannane, tributyl[(1-oxo-3-phenyl-2-propenyl)oxy]-
	36	28089-34-1	Stannane, tributyl(phosphonoxy)-
	37	3090-35-5	Tributyl(oleoyloxy)stannane
	38	3644-38-0	Tributyl(pentachlorophenoxy)stannane
	39	4342-36-3	Stannane, (benzoyloxy)tributyl-
	40	4731-77-5	Dibutylbis(octanoyloxy)stannane
	41	5847-51-8	Stannane, tributyl(formyloxy)-
	42	5847-53-0	Tributyl[(diethylthiocarbamoyl)thio]stannane
	43	6208-26-0	Bis(triisobutyltin) oxide
	44	67057-32-3	Tributyl[(dimethylthiocarbamoyl)thio]stannane
	45	75113-35-8	Stannane, tributyl(D-gluconoyloxy)-
	46	1067-97-6	Tributyltin hydroxide
	47	50851-45-1	Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-(tributylstannyl)-
	48	139353-88-1	1-Butannimium, N,N,N-tributyl-, (TB-5-11)-difluorotriphenylstannate(1-)
	49	97922-83-3	Stannane,[1,4-phenylenebis(carbonyloxy)]bis(triphenyl-
	50	1262-21-1	Bis(triphenyltin) oxide
	51	13362-00-0	Stannane, [(aminosulfonyl)oxy]triphenyl-
	52	2591-32-4	2,7-Dioxa-1,8-distannaoctane, 4-dodecyl-3,6-dioxo-1,1,1,8,8,8-hexaphenyl-
	53	3644-29-9	Stannane, [(1-oxododecyl)oxy]triphenyl-
	54	56323-19-4	2,7-Dioxa-1,8-distannaoctane, 4,5-dibromo-3,6-dioxo-1,1,1,8,8,8-hexaphenyl-
	55	61057-41-8	Stannane, [(4-nitrobenzoyl)oxy]triphenyl-
	56	7224-27-3	Benzoic acid, 2-[[[(triphenylstannyl)oxy]carbonyl]-
	57	7552-16-1	Pyridine, 3-[[[(triphenylstannyl)oxy]carbonyl]-
	58	83500-88-3	Stannane, [(2-nitrobenzoyl)oxy]triphenyl-
	59	83514-66-3	Stannane, [(3-nitrobenzoyl)oxy]triphenyl-
	60	910-06-5	Stannane, (benzoyloxy)triphenyl-
	61	-	- Other Trisubstituted organotin compounds
20. Dimethyl fumarate	1	624-49-7	Dimethyl fumarate
21. Polycyclic aromatic hydrocarbon (PAH)	1	50-32-8	Benzo[a]pyrene (BaP)
	2	192-97-2	Benzo[e]pyrene (BeP)

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Agent group	No.	CAS No.	Substance name (English)
	3	56-55-3	Benzo[a]anthracene (BaA)
	4	218-01-9	Chrysen (CHR)
	5	205-99-2	Benzo[b]fluoranthene (BbFA)
	6	205-82-3	Benzo[j]fluoranthene (BjFA)
	7	207-08-9	Benzo[k]fluoranthene (BkFA)
	8	53-70-3	Dibenzo [a, h] anthracene (DBAhA)
22. Phenylmercury	1	62-38-4	Phenylmercury acetate
	2	103-27-5	Phenylmercury propionate
	3	13302-00-6	Phenylmercury 2-ethylhexanoate
	4	13864-38-5	Phenylmercury octanoate
	5	26545-49-3	Phenylmercury neodecanoate
23. Perfluorocarboxylic acid (C9-C14) (PFCA)	1	375-95-1	Heptadecafluorononanoic acid
	2	335-76-2	Nonadecafluorodecanoic acid
	3	2058-94-8	Perfluoroundecanoic acid
	4	307-55-1	Perfluorododecanoic acid
	5	72629-94-8	Perfluorotridecanoic acid
	6	376-06-7	Perfluorotetradecanoic acid
24,25. Mineral Oil Hydrocarbon (MOH)	1	-	Mineral oil aromatic hydrocarbons (MOAH)
	2	-	Mineral oil saturated hydrocarbons (MOSH)

Appendix Table 2-2

Types of the Amine that Must Not Be Generated

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Agent group	No.	Cas No.	Substance name (English)	Substance name (Japanese)
Types of Amine that Must Not Be Generated	1	92-67-1	biphenyl-4-ylamine	4-アミノビフェニル
	2	92-87-5	Benzidine	ベンジジン
	3	95-69-2	4-chloro-o-toluidine	4-クロロ-2-メチルアニリン
	4	91-59-8	2-naphthylamine	2-ナフチルアミン
	5	97-56-3	o-aminoazotoluene	o-アミノアゾトルエン
	6	99-55-8	5-nitro-o-toluidine	5-ニトロ-o-トルイジン
	7	106-47-8	4-chloroaniline	p-クロロアニリン
	8	615-05-4	4-methoxy-m-phenylenediamine	2,4-ジアミノアニソール
	9	101-77-9	4,4'-methylenedianiline	4,4'-メチレンジアニン
	10	91-94-1	3,3'-dichlorobenzidine	3,3'-ジクロロベンジジン
	11	119-90-4	3,3'-dimethoxybenzidine	3,3'-ジメトキシベンジジン
	12	119-93-7	3,3'-dimethylbenzidine	3,3'-ジメチルベンジジン
	13	838-88-0	4,4'-methylenedi-o-toluidine	4,4'-ジアミノ-3,3'-ジメチルジフェニルメタン
	14	120-71-8	6-methoxy-m-toluidine	6-メトキシ-m-トルイジン
	15	101-14-4	4,4'-methylene-bis(2-chloroaniline)	4,4'-メチレン-ビス(2-クロロアニリン)
	16	101-80-4	4,4'-oxydianiline	(9Z)-9-オクタデセン酸水銀(2+)
	17	139-65-1	4,4'-thiodianiline	4,4'-ジアミノジフェニルスルフィド
	18	95-53-4	o-toluidine	o-トルイジン
	19	95-80-7	4-methyl-m-phenylenediamine	4-メチル-m-フェニレンジアミン
	20	137-17-7	2,4,5-trimethylaniline	2,4,5-トリメチルアニリン
	21	90-04-0	o-anisidine	o-アニシジン
	22	60-09-3	4-amino azobenzene	4-アミノアゾベンゼン

Appendix Table 2-3

Revision 4: 2024/07/01

List of Specific Use Subject to Regulation of EU Standards Concerning Restricted Substances

Substance name	Specific Use Subject to Regulation
Azo colorants and azo dyes that form certain aromatic compounds	<ul style="list-style-type: none">• Those possibly touch human skin or oral cavity directly for a long period
Dioctyltin compounds (DOT)	<ul style="list-style-type: none">• Fibers that touch the skin• Walls, floor covers• Two component room temperature curing mold kit (RTV-2 mold kit)
Polycyclic aromatic hydrocarbon (PAH)	<ul style="list-style-type: none">• Rubber or plastic parts that directly touch human skin or the oral cavity for long periods or repeatedly for short periods

Appendix Table 2-4

List of Exclusion Items of EU Standards Concerning Restricted Substances

1. RoHS directive ANNEX III

No.	Substance	Exempted use
1	Mercury	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
1(a)	Mercury	For general lighting purposes <30 W: [Scope and dates of applicability] 2.5 mg may be used per burner after 31 December 2012
1(b)	Mercury	For general lighting purposes ≥30 W and <50 W: [Scope and dates of applicability] 3.5 mg may be used per burner after 31 December 2011
1(c)	Mercury	For general lighting purposes ≥50 W and ≤150 W: 5 mg
1(d)	Mercury	For general lighting purposes ≥150 W: 15 mg
1(e)	Mercury	For general lighting purposes with circular or square structural shape and tube diameter <17 mm [Scope and dates of applicability] 7 mg may be used per burner after 31 December 2011
1(f)	Mercury	For special purposes: 5 mg
1(g)	Mercury	For general lighting purposes <30 W with a lifetime equal or above 20,000 h: 3.5 mg [Scope and dates of applicability] Expires on 31 December 2017
2(a)	Mercury	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):
2(a)(1)	Mercury	Tri-band phosphor with normal lifetime and a tube diameter <9 mm (e.g. T2): [Scope and dates of applicability] 4 mg may be used per lamp after 31 December 2011
2(a)(2)	Mercury	Tri-band phosphor with normal lifetime and a tube diameter ≥9 mm and ≤17 mm (e.g. T5): [Scope and dates of applicability] 3 mg may be used per lamp after 31 December 2011
2(a)(3)	Mercury	Tri-band phosphor with normal lifetime and a tube diameter >17 mm and ≤28 mm (e.g. T8): [Scope and dates of applicability] 3.5 mg may be used per lamp after 31 December 2011
2(a)(4)	Mercury	Tri-band phosphor with normal lifetime and a tube diameter >28 mm (e.g. T12): [Scope and dates of applicability] 3.5 mg may be used per lamp after 31 December 2012
2(a)(5)	Mercury	Tri-band phosphor with long lifetime (≥25,000 h): [Scope and dates of applicability] 5 mg may be used per lamp after 31 December 2011
2(b)	Mercury	Mercury in other fluorescent lamps not exceeding (per lamp):
2(b)(2)	Mercury	Non-linear halophosphate lamps (all diameters): 15 mg [Scope and dates of applicability] Expires on 13 April 2016
2(b)(3)	Mercury	Non-linear tri-band phosphor lamps with tube diameter >17 mm (e.g. T9) [Scope and dates of applicability] 15 mg may be used per lamp after 31 December 2011
2(b)(4)	Mercury	Lamps for other general lighting and special purposes (e.g. induction lamps) [Scope and dates of applicability] 15 mg may be used per lamp after 31 December 2011
3	Mercury	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
3(a)	Mercury	Short length (≤500 mm) [Scope and dates of applicability] 3.5 mg may be used per lamp after 31 December 2011
3(b)	Mercury	Medium length (>500 mm and ≤1500 mm) [Scope and dates of applicability] 5 mg may be used per lamp after 31 December 2011
3(c)	Mercury	Long length (>1500 mm) [Scope and dates of applicability] 13 mg may be used per lamp after 31 December 2011
4(a)	Mercury	Mercury in other low pressure discharge lamps (per lamp) [Scope and dates of applicability] 15 mg may be used per lamp after 31 December 2011
4(b)	Mercury	Mercury in High Pressure Sodium (vapor) lamps for general lighting purposes not exceeding (per burner) in lamps with improved color rendering index Ra >60
4(b)-I	Mercury	P <155 W [Scope and dates of applicability] 30 mg may be used per burner after 31 December 2011
4(b)-II	Mercury	155 W <P <405 W [Scope and dates of applicability] 40 mg may be used per burner after 31 December 2011
4(b)-III	Mercury	P > 405 W [Scope and dates of applicability] 40 mg may be used per burner after 31 December 2011
4(c)	Mercury	Mercury in other High Pressure Sodium (vapor) lamps for general lighting purposes not exceeding (per burner):
4(c)-I	Mercury	P < 155 W [Scope and dates of applicability] 25 mg may be used per burner after 31 December 2011
4(c)-II	Mercury	155 W <P <405 W [Scope and dates of applicability] 30 mg may be used per burner after 31 December 2011
4(c)-III	Mercury	P > 405 W [Scope and dates of applicability] 40 mg may be used per burner after 31 December 2011
4(d)	Mercury	Mercury in High Pressure Mercury (vapor) lamps (HPMV) [Scope and dates of applicability] Expires on 13 April 2015
4(e)	Mercury	Mercury in metal halide lamps(MH)
4(f)	Mercury	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
5(a)	Lead	Lead in glass of cathode ray tubes
5(b)	Lead	Lead in the glass of fluorescent tubes not exceeding 0.2% by weight
6(a)	Lead	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight

Appendix Table 2-4

List of Exclusion Items of EU Standards Concerning Restricted Substances

1. RoHS directive ANNEX III

No.	Substance	Exempted use
6(b)	Lead	Lead as an alloying element in aluminum containing up to 0.4% lead by weight
6(c)	Lead	Copper alloy containing up to 4% lead by weight
7(a)	Lead	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)
7(b)	Lead	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications
7(c)-I	Lead	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound
7(c)-II	Lead	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher
7(c)-III	Lead	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC [Scope and dates of applicability] May be used in spare parts for EEE placed on the market before 1 January 2013
7(c)-IV	Lead	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors [Scope and dates of applicability] Expires on 21 July 2016
8(a)	Cadmium	Cadmium and its compounds in one shot pellet type thermal cut-offs [Scope and dates of applicability] May be used in spare parts for EEE placed on the market before 1 January 2012
8(b)	Cadmium	Cadmium and its compounds in electrical contacts
9	hexavalent chromium	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75 % by weight in the cooling solution
9(b)	Lead	Lead in bearing shells and bushes for refrigerant containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications
11(a)	Lead	Lead used in C-press compliant pin connector systems [Scope and dates of applicability] May be used in spare parts for EEE placed on the market before 24 September 2010
11(b)	Lead	Lead used in other than C-press compliant pin connector systems [Scope and dates of applicability] May be used in spare parts for EEE placed on the market before 1 January 2013
12	Lead	Lead as a coating material for the thermal conduction module C-ring [Scope and dates of applicability] May be used in spare parts for EEE placed on the market before 24 September 2010
13(a)	Lead	Lead in white glasses used for optical applications
13(b)	Lead	Lead in filter glasses and glasses used for reflectance standards
14	Lead	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight [Scope and dates of applicability] May be used in spare parts for EEE placed on the market before 1 January 2011
15	Lead	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages
17	Lead	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications
18(b)	Lead	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb)
21	Lead Cadmium	Lead and cadmium in printing inks for the application of enamels on borosilicate glass
23	Lead	Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm and less [Scope and dates of applicability] May be used in spare parts for EEE placed on the market before 24 September 2010
24	Lead	Lead in solders for the soldering to machined through hole dissocial and planar array ceramic multilayer capacitors
25	Lead	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
29	Lead	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
30	Cadmium	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
31	Lead	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)
32	Lead	Lead oxide in seal frit used for making window assemblies for argon and krypton laser tubes
33	Lead	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
34	Lead	Lead in cermet-based trimmer potentiometer elements
37	Lead	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body

Appendix Table 2-4

List of Exclusion Items of EU Standards Concerning Restricted Substances

1. RoHS directive ANNEX III

No.	Substance	Exempted use
38	Cadmium	Cadmium and cadmium oxide in thick film pastes used on aluminum bonded beryllium oxide
39	Cadmium	Cadmium in color converting II-VI LEDs (< 10 µg Cd per mm ² of light-emitting area) for use in solid state illumination or display systems [Scope and dates of applicability] Expires on 1 July 2014

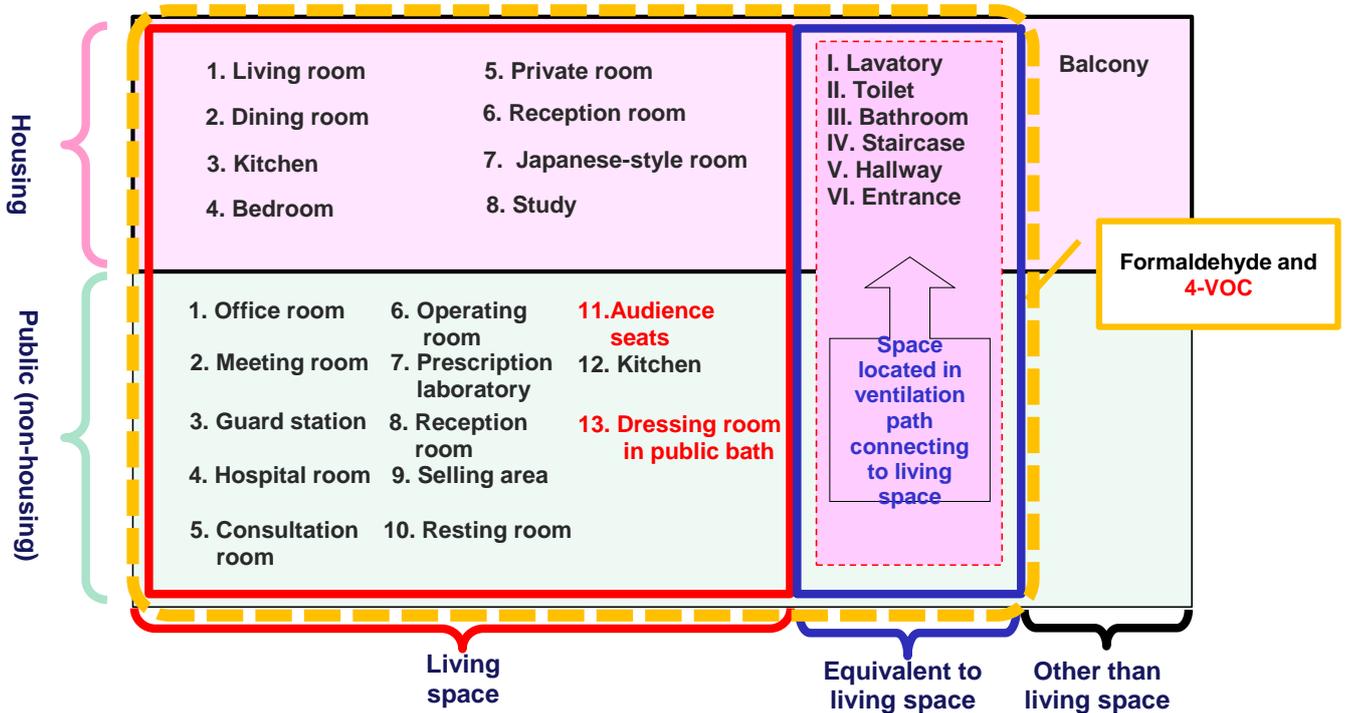
* No. 2(b)(1), No. 10, No. 16, No. 18(a), No. 19, No. 20, No. 22, No. 26, No. 27, No. 28, and No. 36 are omitted in accordance with the exclusion items of EU Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical Equipment (2011/65/EU)(RoHS Directive).

Appendix Table 3

Revision 4:2024/07/01

Concepts of Measures for Formaldehyde and 4-VOC Based on Spaces, Parts, and Materials

1. Space (space subject to emissions of formaldehyde and 4-VOC)



2. Areas (areas subject to formaldehyde and 4-VOC)

Classification	Subject area	Formaldehyde (F****)	4-VOC
Interior finish	• Part facing the living room	Handled	Handled
Foundation	• Top board, end board, bottom plate, and column plate in cabinets Those fixed by backboard, etc.	Handled * The law requires grade F*** or above	Handled
Not subject to regulation	• Shafts and cut ends of pillars, etc. • Fixture of skirting boards, handrail , lintel, beam running between columns, fitting frame etc. • Areas smaller than 1/10 of projective areas of the products • Detachable column plates, etc. (equivalent to brought-in furniture) • Parts not facing the living space (core, etc.) • Paint and adhesive partially used for on-site painting	Handled	Voluntarily handled * Decide whether to handle or not by taking competitor's situations into consideration

3. Materials (materials subject to emission of formaldehyde)
(See Appendix Table 4-2 for details)

1. Plywood	12. Heat reserving material	1. Solid wood
2. Wood flooring	13. Buffer material	2. Boards
3. Structure panel	14. Heat insulating material	3. Decorative sheets (high-pressure melamine resin board, vinyl chloride sheet, printing paper, olefin sheet, wood veneer)
4. Laminated wood	15. Paint (for on-site work)	4. Paint (for on-site work, non-formaldehyde-based)*
5. Laminated veneer lumber	16. Adhesive (for on-site work)	5. Adhesive (non-formaldehyde-based)*
6. Fiber board (MDF)	17. Finishing paint (for on-site work)	6. Finishing coating (non-formaldehyde-based)*
7. PB		7. Metals
8. Sawn wood boards that are joined together on their surfaces and processed into sheets		8. Concrete materials
9. Urea resin board		9. Ceramic building material (glass, tile, brick)
10. Wallpaper		10. Natural stone
11. Adhesive (formaldehyde-based) (for on-site work and secondary processing)		11. Inorganic plastered wall

Building material subject to announcement (applicable to F****)

Building materials not subject to MLIT announcement

* Building materials not subject to MLIT announcement that has F**** registration systems in industrial associations

Building material	Industrial association
Paint (for on-site work, non-formaldehyde-based)	Japan Paint Manufacturers Association
Adhesive (non-formaldehyde-based)	Japan Adhesive Industry Association
Finishing coating (non-formaldehyde-based)	Japan Building Coating Materials Association

Appendix Table 3-2

Revision 4:2024/07/01

List of Building Materials Subject to MLIT announcement and the 4-VOC marking system

1. Formaldehyde

✓: Marking subject to MLIT announcement x: Building material not subject to MLIT announcement

		Type of building material	Formaldehyde (F****)	
1. Building materials subject to announcement	A	Plywood	✓	
	B	Wood flooring	✓	
	C	Structure panel	✓	
	D	Laminated wood	✓	
	E	Laminated veneer lumber	✓	
	F	MDF	✓	
	G	Particle board	✓	
	H	Sawn wood boards, veneer sheets, small pieces, or equivalent are joined together on their surfaces using adhesive containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent and processed into sheets	✓	
	I	Urea resin board	✓	
	J	Wallpaper	✓	
	K	Adhesive		
		1)	Starch-based adhesive for installing wallpaper	✓
		2)	Starch-based adhesive containing formaldehyde solution for installing fixture	✓
	L	Heat reserving material		
		1)	Rockwool heat reserving board, Rockwool felt, Rockwool heat reserving belt, and Rockwool heat reserving pipe cover	✓
		2)	Glass wool heat reserving board, glass wool felt, glass wool heat reserving belt, and glass wool heat reserving pipe cover	✓
	M	Buffer material		
		1)	Rockwool buffer material for floating floor	✓
	N	Heat insulating material		
		1)	Rockwool insulating material	✓
2)		Glass wool insulating material	✓	
3)		Glass wool insulating material for blowing	✓	
2. building materials subject to announcement only when coated during installation work	A	Paint (only those containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent) *1		
		1)	Aluminum paint	✓
		2)	Oil-based paint	✓
		3)	Synthetic resin-based paint	✓
		4)	Phthalic acid resin varnish	✓
		5)	Phthalic acid resin enamel	✓
		6)	Oil-based base paint	✓
		7)	General-use rust resisting paint	✓
		8)	Multicolor design paint	✓
		9)	Housing indoor wood floor paint	✓
		10)	Housing wood/metal paint	✓
	11)	Building floor paint	✓	
	B	Finishing coating (only those containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent)		
		1)	Interior synthetic resin emulsion coating for thin textured finishes	✓
		2)	Interior synthetic resin emulsion coating for thick textured finishes	✓
		3)	Lightweight aggregate finishing coating	✓
		4)	Synthetic resin emulsion multi-layer finishing coating	✓
	C	Adhesive (only those containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent)		
		1)	Vinyl acetate resin solvent-based adhesive	✓
		2)	Rubber solvent-based adhesive	✓
3)		Vinyl copolymer resin solvent-based adhesive	✓	
	4)	Regenerated rubber solvent-based adhesive	✓	

3. Building materials not subject to announcement

A	Wood (solid wood)	x
B	Boards	
	1) Insulation board	x
	2) Hard board	x
	3) Wood cement board	x
	4) Pulp cement board	x
	5) Plaster board	x
	6) Calcium silicate board	x
	7) Rockwool acoustical board	x
	8) Volcanic vitreous double-glazed board	x
	9) Bamboo flooring	x
C	Decorative sheet	
	1) High-pressure melamine resin board	x
	2) Printing paper	x
	3) Olefin sheet	x
	4) Vinyl chloride sheet	x
	5) Wood veneer	x
D	Coating material*1	
	1) Shellac varnish, etc.	x
	2) Nitrocellulose lacquer	x
	3) Lacquer-based sealer	x
	4) Lacquer-based base paint	x
	5) Vinyl chloride resin varnish	x
	6) Vinyl chloride resin enamel	x
	7) Vinyl chloride resin primer	x
	8) Acrylic resin varnish	x
	9) Acrylic resin enamel	x
	10) Acrylic resin primer	x
	11) Synthetic resin emulsion paint and sealer	x
	12) Synthetic resin emulsion design paint	x
	13) Synthetic resin emulsion putty	x
	14) Household indoor wall paint	x
	15) Building polyurethane resin paint	x
	16) Glossy synthetic resin emulsion paint	x
	17) Acrylic resin nonaqueous resin paint	x
	18) Oil stain	x
	19) Pigment stain	x
E	Adhesive	
	1) Vinyl acetate resin-based emulsion adhesive	x
	2) Vinyl copolymer resin-based emulsion adhesive	x
	3) Rubber latex-based adhesive	x
	4) Epoxy modified synthetic rubber latex-based adhesive	x
	5) Aqueous polymer-isocyanate-based adhesive	x
	6) α -olefin-resin-based adhesive	x
	7) Epoxy resin-based adhesive	x
	8) Urethane resin-based adhesive	x
	9) Modified silicone resin-based adhesive	x
	10) Silylated urethane resin-based adhesive	x
	11) Hot-melt adhesive	x
F	Finishing coating	x
G	Metals	
	1) Aluminum board	x
	2) Copper board	x
	3) Stainless steel board	x
	4) Enameled iron board (including PCM board, vinyl chloride copper board, color aluminum, etc.)	x
H	Concrete materials	x
I	Ceramic building material	x
J	Natural stone	x
K	Inorganic plastered wall	x

*1: With regard to paints, only on-site painting is regulated, and painting in secondary processing is not regulated. (Q&A session in the "Explanatory Session for Housing Component Guideline" (held on May 29, 2003 by Japan Construction Material & Housing Equipment Industries Federation and three other organizations)

2. 4-VOC

The applicable building materials (hereafter target materials) shall be those used in living spaces shown below.

1. Building boards, wallpaper, and floor materials specified in JIS A1902-1
2. Adhesives specified in JIS A1902-2
3. Paints and building finishing coatings specified in JIS A1902-3
4. Heat insulating materials specified in JIS A1902-4
5. Other materials using the subject VOC that can be logically evaluated based on the applicable standards
6. Materials for which it has been confirmed that containment of the subject VOC indicated in the separate table is below standard values

Appended table

Materials for which it has been confirmed that containment of the subject VOC is below standard values*

Material	Requirement	Note
Household Rockwool heat insulating material	JIS A 9521	According to the investigation result of Rock Wool Association Japan
Rockwool heat reserving/insulating material	JIS A 9504	
Rockwool (for blowing)	JIS A 9504	
Rockwool heat insulating material for blowing	JIS A 9523	
Rockwool decorative acoustical board (ceiling)	JIS A 6301	
Household glass wool heat insulating material	JIS A 9521	According to the investigation result of Glass Fiber Association
Glass wool heat insulating material for blowing	JIA A 9523	
Wood (lumber, sliced veneer of natural	—	According to the report of "Study group of VOC proofing/marketing from wood building material" (on August 1, 2008 by Japan Housing and Wood Technology Center)
Three-tier panel/modified material	Products using urea resin adhesive, melamine/urea cocondensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or adhesives created by cocondensation or missing these. However, three-tier panels and modified materials using aqueous polymer/isocyanate adhesive shall be domestically produced.	
Plywood	Products using urea resin adhesive, melamine/urea cocondensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or adhesives created by cocondensation or missing these. However, plywood using aqueous polymer/isocyanate adhesive shall be domestically produced.	
Laminated wood	Products using urea resin adhesive, melamine/urea cocondensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or adhesives created by cocondensation or missing these. However, for laminated wood using aqueous polymer/isocyanate adhesive, the adhesive shall be in compliance with 4-VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association.	
Laminated veneer lumber (LVL)	Products using urea resin adhesive, melamine/urea cocondensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or adhesives created by cocondensation or missing these. However, laminated veneer lumber using aqueous polymer/isocyanate adhesive shall be domestically produced.	
Flooring	Products using urea resin adhesive, melamine/urea cocondensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or adhesives created by cocondensation or missing these. However, for flooring using aqueous polymer/isocyanate adhesive, the adhesive shall be in compliance with 4-VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association. Any kind of products shall not be processed by coating, etc.	
Particle board	Products using urea resin adhesive, melamine/urea cocondensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or adhesives created by cocondensation or missing these. However, for flooring using isocyanate-based adhesive, the adhesive shall be in compliance with 4-VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association.	
MDF	Products using urea resin adhesive, melamine/urea cocondensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or adhesives created by cocondensation or missing these. However, for MDF using isocyanate-based adhesive, the adhesive shall be in compliance with 4-VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association.	
Insulation board	—	
Hard board	—	

* Source: "Self-imposed marking system for VOC emission from decorative board, etc." and "Guideline of VOC marking on household components" in the website of Japan Construction Material & Housing Equipment Industries Federation

Appendix Table 3-3

List of Exclusion Items of 4-VOC Operation Standards

	List of exclusion items
1	Shaft-shaped parts, areas smaller than 1/10 of projective areas of products, cut ends, parts not facing the room (cores, etc.), paints, adhesives, and other materials that are only used partially are exempted. *1
2	Products using wood building materials for a specific customer not requiring conformity to 4-VOC standards.

*1: Source: "Basic Technical Criteria for Countermeasures Regarding Sick House Issues" issued by MLIT

*1: Source: "Guideline of VOC Marking on Housing Components"

Japan Construction Material & Housing Equipment Industries Federation

Association of Living Amenity

Japan Association of Kitchen & Bath

National Cooperative Association of Natural Veneer Decorated Plywood Industries

Japan Print Color Plywood Industries Federation (NPC)

Appendix Table 3-4

Revision 4:2024/07/01

Types of Certification of Conformity to 4-VOC Standards for Components of Wood Building Materials

Type	Unit	Component	Proof (any one of those)
Decorative	Individual	Decorative sheet	Registration Number in Printers Association of Japan
			Non-use warranty and GHS-compliant SDS
			VOC emission test report based on JIS A1902-1
		Adhesive	Registration Number in Japan Adhesive Industry Association
			VOC emission test report based on JIS A1902-2
		Base material	Registration Number in Japan Fiberboard and Particleboard Manufacturers Association
			Japan Construction Material & Housing Equipment Industries Federation_Marking Rules Concerning VOC Emission from Decorative Boards (Reference form 3) Check Items for Base Materials Reference Documents
			VOC emission test report based on JIS A1902-1
		Overall evaluation	Decorative sheet+adhesive +base material
	Registration Number in Japan Construction Material & Housing Equipment Industries Federation		
	Registration Number in <u>Japan Print Color Plywood Industries Federation</u>		
	Registration Number in National Cooperative Association of Natural Veneer Decorated Plywood Industries		
Registration Number in Japan Laminated Wood Products Association			
VOC emission test report based on JIS A1902-1			
Coated	Individual	Paint	Non-use warranty and GHS-compliant SDS, or composition table (recipe)
			VOC emission test report based on JIS A1902-3
		Base material	Registration Number in Japan Fiberboard and Particleboard Manufacturers Association
			Japan Construction Material & Housing Equipment Industries Federation_Marking Rules Concerning VOC Emission from Decorative Boards (Reference form 3) Check Items for Base Materials Reference Documents
			VOC emission test report based on JIS A1902-1
			Registration Number in Japan Laminated Wood Products Association
	Overall evaluation	Paint+base material	Registration Number in Japan Fiberboard and Particleboard Manufacturers Association
			Registration Number in Japan Construction Material & Housing Equipment Industries Federation
			Registration Number in Japan Print Color Plywood Industries Federation
			Registration Number in National Cooperative Association of Natural Veneer Decorated Plywood Industries
			VOC emission test report based on JIS A1902-1
			Registration Number in Japan Laminated Wood Products Association

Reference: List of materials confirmed that "4-VOC emission rate is below the standard value"
http://www.kensankyo.org/kankyo/4voc/kihonteki_191216.pdf (See Appendix 1)

Remarks: If the emission rate standard value of VOCs subject to conformity certification is revised, confirm that the update of the registration number corresponding to the new standard value has been completed.

Source: Explanations on the Guideline for VOC Marking on Housing Components
 Appendix Table 1. Table of Basis for Decorative Board Based on the Guideline for VOC Marking on Housing Components/Japan Construction Material & Housing Equipment Industries Federation, etc.

Appendix Table 4

Examples of Substances Subject to the US Standards Concerning Restricted Substances

Revision 4:2024/07/01

Agent group	No.	CAS No.	Substance name (English)
1. Phenol, Isopropylated Phosphate (3:1)	1	68937-41-7	Phenol, Isopropylated Phosphate (3:1) (PIP(3:1))