

Appendix 1. Ozone depleting substances

Rev.1
2017.12.26

Montreal Protocol			Sample substances		Chemical formula	Sample CAS No				
Class	Annex	Group								
I	A	I	CFC [Chlorofluorocarbon]							
			CFC-11	Trichlorofluoromethane	CFCl ₃	75-69-4				
			CFC-12	Dichlorodifluoromethane	CF ₂ Cl ₂	75-71-8				
			CFC-113	Trichlorotrifluoroethane (CFC-113) 1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)(CAS No 76-13-1) 1,1,1-Trichloro-2,2,2-trifluoroethane (CFC-113a)(CAS No 354-58-5)	C ₂ F ₃ Cl ₃	26523-64-8 354-58-5 76-13-1				
			CFC-114	Dichlorotetrafluoroethane (CFC-114) 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC-114)(CAS No 76-14-2) 1,1-Dichloro-1,2,2,2-tetrafluoroethane (CFC-114a)(CAS No 374-07-2)	C ₂ F ₄ Cl ₂	1320-37-2 374-07-2 76-14-2				
CFC-115	Chloropentafluoroethane (CFC-115) 1-Chloro-1,1,2,2,2-pentafluoroethane (CFC-115)	C ₂ F ₅ Cl	76-15-3							
I	A	II	Halon							
			Halon-1211	Bromochlorodifluoromethane	CF ₂ BrCl	353-59-3				
			Halon-1301	Bromotrifluoromethane	CF ₃ Br	75-63-8				
			Halon-2402	Dibromotetrafluoroethane 1,2-Dibromo-1,1,2,2-tetrafluoroethane (CAS No 124-73-2) 2,2-Dibromo-1,1,1,2-tetrafluoroethane (CAS No 27336-23-8)	C ₂ F ₄ Br ₂	124-73-2 25497-30-7 27336-23-8				
I	B	I	Other completely halogenated CFC							
			CFC-13	Chlorotrifluoromethane	CF ₃ Cl	75-72-9				
			CFC-111	Pentachlorofluoroethane (CFC-111) 1,1,1,2,2-Pentachloro-2-fluoroethane 1,1,2,2,2-Pentachloro-1-fluoroethane	C ₂ FCl ₅	354-56-3 954-56-3 29756-45-4				
			CFC-112	Tetrachlorodifluoroethane (CFC-112) 1,1,2,2-Tetrachloro-1,2-difluoroethane (CFC-112) 1,1,1,2-Tetrachloro-2,2-difluoroethane (CFC-112a) 1,2,2,2-Tetrachloro-1,1-difluoroethane (CFC-112a)	C ₂ F ₂ Cl ₄	76-11-9 76-12-0				
			CFC-211	Heptachlorofluoropropane (CFC-211) 1,1,1,2,2,3,3-Heptachloro-3-fluoropropane (CFC-211aa) 1,1,1,2,3,3,3-Heptachloro-2-fluoropropane (CFC-211ba)	C ₃ FCl ₇	422-78-6 422-81-1 135401-87-5				
			CFC-212	Hexachlorodifluoropropane (CFC-212) 1,1,1,3,3,3-Hexachloro-2,2-difluoropropane (HCFC-212)	C ₃ F ₂ Cl ₆	134452-44-1 3182-26-1				
			CFC-213	Pentachlorotrifluoropropane (CFC-213) 1,1,1,3,3-Pentachloro-2,2,3-trifluoropropane (HCFC-213)	C ₃ F ₃ Cl ₅	134237-31-3 2354-06-5				
			CFC-214	Tetrachlorotetrafluoropropane (CFC-214) 1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane (CFC-214aa) 1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane (CFC-214cb)	C ₃ F ₄ Cl ₄	2268-46-4 29255-31-0 677-68-9				
			CFC-215	Trichloropentafluoropropane (CFC-215) 1,2-Trichloro-1,1,3,3,3-pentafluoropropane (CFC-215aa) 1,2,3-Trichloro-1,1,2,3,3-pentafluoropropane (CFC-215ba) 1,1,2-Trichloro-1,2,3,3,3-pentafluoropropane (CFC-215bb) 1,1,3-Trichloro-1,2,2,3,3-pentafluoropropane (CFC-215ca) 1,1,1-Trichloro-2,2,3,3,3-pentafluoropropane (CFC-215cb)	C ₃ F ₅ Cl ₃	1599-41-3 1652-81-9 4259-43-2 76-17-5 812-30-6				
			CFC-216	Dichlorohexafluoropropane	C ₃ F ₆ Cl ₂	661-97-2 662-01-1				
			CFC-217	Chloroheptafluoropropane (CFC-217) 2-Chloro-1,1,1,2,3,3,3-heptafluoropropane (CFC-217ba) 1-Chloro-1,1,2,2,3,3,3-heptafluoropropane (CFC-217ca)	C ₃ F ₇ Cl	422-86-6 76-18-6				
			I	B	II	—	CFC-10	Carbon tetrachloride	CCl ₄	56-23-5
			I	B	III	—	—	1,1,1-Trichloroethane (1,1,2-Trichloroethane is excepted)	C ₂ H ₃ Cl ₃	71-55-6
I	C	III	—	Halon-1011	Bromochloromethane	CH ₂ BrCl	74-97-5			
I	E	I	—	Halon-1001	Methyl bromide Bromomethane	CH ₃ Br	74-83-9			
I	C	II	HBFC [Hydrobromofluorocarbon]							
			Halon-1102	Dibromofluoromethane (HBFC-21 B2)	CHFBr ₂	1868-53-7				
			Halon-1201	Bromodifluoromethane (HBFC-22 B1)	CHF ₂ Br	1511-62-2				
			Halon-1101	Bromofluoromethane (HBFC-31 B1)	CH ₂ FBr	373-52-4				
			Halon-2104	Tetrabromofluoroethane (HBFC-121 B4)	C ₂ HFBBr ₄	306-80-9 353-93-5				
			Halon-2203	Tribromodifluoroethane (HBFC-122 B3) 1,1,2-Tribromo-1,2-difluoroethane (CAS No 353-97-9) 1,2,2-Tribromo-1,1-difluoroethane (CAS No 677-34-9)	C ₂ HF ₂ Br ₃	353-97-9 677-34-9 7304-53-2				
			Halon-2302	Dibromotrifluoroethane (HBFC-123 B2) 1,2-Dibromo-1,1,2-trifluoroethane	C ₂ HF ₃ Br ₂	354-04-1				
			Halon-2401	Bromotetrafluoroethane (HBFC-124 B1) 2-Bromo-1,1,1,2-tetrafluoroethane 1-Bromo-1,2,2,2-tetrafluoroethane	C ₂ HF ₄ Br	124-72-1				
			Halon-2103	Tribromofluoroethane (HBFC-131 B3) 1,1,2-tribromo-1-fluoroethane (CAS No 420-88-2) 1,1,2-tribromo-2-fluoroethane (CAS No 598-67-4)	C ₂ H ₂ FBr ₃	172912-75-3 420-88-2 598-67-4				
			Halon-2202	Dibromodifluoroethane (HBFC-132 B2) 1,2-Dibromo-1,1-difluoroethane (CAS No 75-82-1) 1,1-Dibromo-2,2-difluoroethane (CAS No 359-19-3, 430-85-3)	C ₂ H ₂ F ₂ Br ₂	359-19-3 430-85-3 75-82-1				

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Class	Annex	Group			
			Halon-2301 Bromotrifluoroethane (HBFC-133B1) 1-Bromo-2,2,2-trifluoroethane (HBFC-133a B1)(CAS No 421-06-7) 2-Bromo-1,1,1-trifluoroethane (HBFC-133a B1)(CAS No 421-06-7)	$C_2H_2F_3Br$	421-06-7
			Halon-2102 Dibromofluoroethane (HBFC-141 B2) 1,2-Dibromo-1-fluoroethane 1,2-Dibromo-2-fluoroethane	$C_2H_3FBr_2$	358-97-4
			Halon-2201 Bromodifluoroethane (HBFC-142 B1) 2-Bromo-1,1-difluoroethane	$C_2H_3F_2Br$	359-07-9
			Halon-2101 Bromofluoroethane (HBFC-151 B1) 1-Bromo-2-fluoroethane	C_2H_4FBr	762-49-2
			Halon-3106 Hexabromofluoropropane (HBFC-221 B6)	C_3HBrF_6	
			Halon-3205 Pentabromodifluoropropane (HBFC-222 B5)	$C_3HF_2Br_5$	
			Halon-3304 Tetrabromotrifluoropropane (HBFC-223 B4)	$C_3HF_3Br_4$	
			Halon-3403 Tribromotetrafluoropropane (HBFC-224 B3)	$C_3HF_4Br_3$	666-48-8
			Halon-3502 Dibromopentafluoropropane (HBFC-225 B2) 1,2-Dibromo-1,1,3,3,3-pentafluoropropane	$C_3HF_5Br_2$	431-78-7
			Halon-3601 Bromohexafluoropropane (HBFC-226 B1) 1-Bromo-1,1,2,3,3,3-hexafluoropropane (CAS No 2252-78-0) 2-Bromo-1,1,1,3,3,3-hexafluoropropane (CAS No 2252-79-1)	C_3HF_6Br	2252-78-0 2252-79-1
			Halon-3105 Pentabromofluoropropane (HBFC-231 B5)	$C_3H_2FBr_5$	
			Halon-3204 Tetrabromodifluoropropane (HBFC-232 B4) 1,1,1,3-Tetrabromo-3,3-difluoropropane	$C_3H_2F_2Br_4$	148875-98-3
			Halon-3303 Tribromotrifluoropropane (HBFC-233 B3) 2,2,3-Tribromo-1,1,1-trifluoropropane (CAS No 421-90-9)	$C_3H_2F_3Br_3$	421-90-9 431-48-1
			Halon-3402 Dibromotetrafluoropropane (HBFC-234 B2) 1,3-Dibromo-1,1,3,3-tetrafluoropropane	$C_3H_2F_4Br_2$	460-86-6
			Halon-3501 Bromopentafluoropropane (HBFC-235 B1) 3-bromo-1,1,1,2,2-pentafluoropropane (CAS No 422-01-5) 1-bromo-1,1,3,3,3-pentafluoropropane (CAS No 460-88-8) 1-bromo-1,1,2,2,3-pentafluoropropane (CAS No 677-53-2) 1-bromo-1,2,2,3,3-pentafluoropropane (CAS No 679-94-7)	$C_3H_2F_5Br$	22692-16-6 26391-11-7 422-01-5 460-88-8 53692-43-6 53692-44-7 677-52-1 677-53-2 679-94-7
			Halon-3104 Tetrabromofluoropropane (HBFC-241 B4) 1,1,1,3-tetrabromo-3-fluoropropane	$C_3H_3FBr_4$	148875-95-0
			Halon-3203 Tribromodifluoropropane (HBFC-242 B3) 1,1,1-Tribromo-2,2-difluoropropane (CAS No 70192-80-2)	$C_3H_3F_2Br_3$	666-25-1 70192-80-2
			Halon-3302 Dibromotrifluoropropane (HBFC-243 B2) 2,3-Dibromo-1,1,1-trifluoropropane (CAS No 431-21-0) 1,3-Dibromo-1,1,3-trifluoropropane (CAS No 460-60-6)	$C_3H_3F_3Br_2$	431-21-0 460-60-6
			Halon-3401 Bromotetrafluoropropane (HBFC-244 B1) 2-Bromo-1,1,1,3-tetrafluoropropane (CAS No 29151-25-5) 3-Bromo-1,1,1,3-tetrafluoropropane (CAS No 460-67-3) 3-Bromo-1,1,2,2-tetrafluoropropane (CAS No 679-84-5) 1-Bromo-1,1,2,2-tetrafluoropropane (CAS No 70192-84-6)	$C_3H_3F_4Br$	19041-01-1 29151-25-5 460-67-3 679-84-5 70192-71-1 70192-84-6
			Halon-3103 Tribromofluoropropane (HBFC-251 B1) 1,2,3-Tribromo-1-fluoropropane	$C_3H_4FBr_3$	75372-14-4
			Halon-3202 Dibromodifluoropropane (HBFC-252 B2) 1,3-Dibromo-1,1-difluoropropane (CAS No 460-25-3)	$C_3H_4F_2Br_2$	460-25-3 51584-25-9
			Halon-3301 Bromotrifluoropropane (HBFC-253 B1) 3-Bromo-1,1,1-trifluoropropane (CAS No 460-32-2) 2-Bromo-1,1,1-trifluoropropane (CAS No 421-46-5)	$C_3H_4F_3Br$	421-46-5 460-32-2
			Halon-3102 Dibromofluoropropane (HBFC-261 B2) 1,3-Dibromo-2-fluoropropane (CAS No 1786-38-5) 1,2-Dibromo-3-fluoropropane (CAS No 453-00-9) 1,3-Dibromo-1-fluoropropane (CAS No 51584-26-0) 1,2-Dibromo-1-fluoro-(R*,R*)-propane (CAS No 62135-11-9) 1,2-Dibromo-1-fluoro-(R*,S*)-propane (CAS No 62135-10-8)	$C_3H_5FBr_2$	1786-38-5 453-00-9 51584-26-0 62135-10-8 62135-11-9
			Halon-3201 Bromodifluoropropane (HBFC-262 B1) 1-Bromo-2,3-difluoropropane (CAS No 111483-20-6) 2-Bromo-1,3-difluoropropane (CAS No 2195-05-3) 1-Bromo-2,2-difluoropropane (CAS No 420-98-4) 3-Bromo-1,1-difluoropropane (CAS No 461-49-4)	$C_3H_5F_2Br$	111483-20-6 2195-05-3 420-89-3 420-98-4 430-87-5 461-49-4
			Halon-3101 Bromofluoropropane (HBFC-271 B1) 1-Bromo-2-fluoropropane (CAS No 1871-72-3) 1-Bromo-3-fluoropropane (CAS No 352-91-0)	C_3H_6FBr	1871-72-3 352-91-0
II	C	I	HCFC [Hydrochlorofluorocarbon]		
			HCFC-21 Dichlorodifluoromethane (*)	$CHFCl_2$ (*)	75-43-4
			HCFC-22 Chlorodifluoromethane (*)	CHF_2Cl (*)	75-45-6

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Class	Annex	Group				
			HCFC-31	Chlorofluoromethane	CH ₂ FCI	593-70-4
			HCFC-121	Tetrachlorofluoroethan (HCFC-121) 1,1,2,2-Tetrachloro-1-fluoroethan (HCFC-121) 1,1,1,2-Tetrachloro-2-fluoroethan (HCFC 121a)	C ₂ HFCI ₄	134237-32-4 354-11-0 354-14-3
			HCFC-122	Trichlorodifluoroethane (HCFC-122) 1,2,2-Trichloro-1,1-difluoroethane (HCFC-122) 1,1,2-Trichloro-1,2-difluoroethane (HCFC-122a) 1,1,1-Trichloro-2,2-difluoroethane (HCFC-122b)	C ₂ HF ₂ Cl ₃	354-12-1 354-15-4 354-21-2 41834-16-6 62549-18-2
			HCFC-123	Dichlorotrifluoroethane (HCFC-123) 2,2-Dichloro-1,1,1-trifluoroethane (HCFC-123) (*) 1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a) 1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	C ₂ HF ₃ Cl ₂ CHCl ₂ CF ₃ (*)	306-83-2 34077-87-7 354-23-4 812-04-4 90454-18-5
			HCFC-124	Chlorotetrafluoroethane (HCFC-124) 2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124) (*) 1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	C ₂ HF ₄ Cl CHFClCF ₃ (*)	2837-89-0 354-25-6 63938-10-3
			HCFC-131	Trichlorofluoroethane (HCFC-131) 1,1,2-Trichloro-2-fluoroethane (HCFC-131) 1,1,2-Trichloro-1-fluoroethane (HCFC-131a) 1,1,1-Trichloro-2-fluoroethane (HCFC-131b)	C ₂ H ₂ FCI ₃	134237-34-6 2366-36-1 27154-33-2 359-28-4 811-95-0
			HCFC-132	Dichlorodifluoroethane (HCFC-132) 1,2-Dichloro-1,2-difluoroethane (HCFC-132) 1,1-Dichloro-2,2-difluoroethane (HCFC-132a) 1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	C ₂ H ₂ F ₂ Cl ₂	1649-08-7 1842-05-3 25915-78-0 431-06-1 471-43-2
			HCFC-133	Chlorotrifluoroethane (HCFC-133) 1-Chloro-1,2,2-trifluoroethane (HCFC-133) 2-Chloro-1,1,1-trifluoroethane (HCFC-133a) 1-Chloro-1,1,2-trifluoroethane (HCFC-133b)	C ₂ H ₂ F ₃ Cl	1330-45-6 421-04-5 431-07-2 75-88-7
			HCFC-141 HCFC-141b (*)	Dichlorofluoroethane (HCFC-141) 1,2-Dichloro-1-fluoroethane (HCFC-141) 1,1-Dichloro-2-fluoroethane (HCFC-141a) 1,1-Dichloro-1-fluoroethane (HCFC-141b) (*)	C ₂ H ₃ FCI ₂ CH ₃ CFCl ₂ (*)	1717-00-6 25167-88-8 358-97-4 430-53-5 430-57-9
			HCFC-142 HCFC-142b (*)	Chlorodifluoroethane (HCFC-142) 2-Chloro-1,1-difluoroethane (HCFC-142) 1-Chloro-1,2-difluoroethane (HCFC-142a) 1-Chloro-1,1-difluoroethane (HCFC-142b)	C ₂ H ₃ F ₂ Cl CH ₃ CF ₂ Cl (*)	25497-29-4 338-64-7 338-65-8 55949-44-5 75-68-3
			HCFC-151	Chlorofluoroethane (HCFC-151) 1-Chloro-2-fluoroethane (HCFC-151) 1-Chloro-1-fluoroethane (HCFC-151a)	C ₂ H ₄ FCI	762-50-5 1615-75-4 110587-14-9
			HCFC-221	Hexachlorofluoropropane (HCFC-221) 1,1,1,2,2,3-Hexachloro-3-fluoropropane (HCFC-221ab)	C ₃ HFCI ₆	134237-35-7 29470-94-8 422-26-4
			HCFC-222	Pentachlorodifluoropropane (HCFC-222) 1,2,2,3,3-Pentachloro-1,1-difluoropropane (HCFC-222aa) 1,1,1,3,3-Pentachloro-2,2-difluoropropane (HCFC-222ca)	C ₃ HF ₂ Cl ₅	116867-32-4 134237-36-8 422-30-0 422-49-1
			HCFC-223	Tetrachlorotrifluoropropane (HCFC-223) 1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223ca) 1,1,1,3-Tetrachloro-2,2,3-trifluoropropane (HCFC-223cb)	C ₃ HF ₃ Cl ₄	134237-37-9 422-50-4 422-52-6
			HCFC-224	Trichlorotetrafluoropropane (HCFC-224) 1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca) 1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb) 1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	C ₃ HF ₄ Cl ₃	134237-38-0 422-51-5 422-53-7 422-54-8
			HCFC-225	Dichloropentafluoropropane (HCFC-225) 2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa) 2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba) 1,2-Dichloro-1,1,1,2,3,3-pentafluoropropane (HCFC-225bb) 3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca) (*) 1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb) (*) 1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc) 1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da) 1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea) 1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	C ₃ HF ₅ Cl ₂ CF ₃ CF ₂ CHCl ₂ (*) CF ₂ ClCF ₂ CHClF(*)	111512-56-2 127564-92-5 128903-21-9 13474-88-9 136013-79-1 422-44-6 422-48-0 422-56-0 431-86-7 507-55-1
			HCFC-226	Chlorohexafluoropropane (HCFC-226) 2-Chloro-1,1,1,2,3,3-hexafluoropropane (HCFC-226ba) 3-Chloro-1,1,1,2,2,3-hexafluoropropane (HCFC-226ca) 1-Chloro-1,1,2,2,3,3-hexafluoropropane (HCFC-226cb) 2-Chloro-1,1,1,3,3,3-hexafluoropropane (HCFC-226da) 1-Chloro-1,1,2,3,3,3-hexafluoropropane (HCFC-226ea)	C ₃ HF ₆ Cl	134308-72-8 28987-04-4 359-58-0 422-55-9 422-57-1 431-87-8 51346-64-6
			HCFC-231	Pentachlorofluoropropane (HCFC-231) 1,1,1,2,3-Pentachloro-2-fluoropropane (HCFC-231bb)	C ₃ H ₂ FCI ₅	134190-48-0 421-94-3
			HCFC-232	Tetrachlorodifluoropropane (HCFC-232) 1,1,3,3-Tetrachloro-2,2-difluoropropane (HCFC-232ca) 1,1,1,3-Tetrachloro-2,2-difluoropropane (HCFC-232cb) 1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC-232fc)	C ₃ H ₂ F ₂ Cl ₄	1112-14-7 134237-39-1 460-89-9 677-54-3
			HCFC-233	Trichlorotrifluoropropane (HCFC-233) 1,1,3-Trichloro-2,2,3-trifluoropropane (HCFC-233ca) 1,1,3-Trichloro-1,2,2-trifluoropropane (HCFC-233cb) 1,1,1-Trichloro-2,2,3-trifluoropropane (HCFC-233cc) 1,1,1-Trichloro-3,3,3-trifluoropropane (HCFC-233fb)	C ₃ H ₂ F ₃ Cl ₃	13211-71-7 131221-36-8 134237-40-4 421-99-8 7125-83-9

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Class	Annex	Group			
			HCFC-234 Dichlorotetrafluoropropane (HCFC-234) 2,2-Dichloro-1,1,3,3-tetrafluoropropane (HCFC-234aa) 2,2-Dichloro-1,1,1,3-tetrafluoropropane (HCFC-234ab) 1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234ba) 2,3-Dichloro-1,1,1,2-tetrafluoropropane (HCFC-234bb) 1,2-Dichloro-1,1,2,3-tetrafluoropropane (HCFC-234bc) 1,3-Dichloro-1,2,2,3-tetrafluoropropane (HCFC-234ca) 1,1-Dichloro-2,2,3,3-tetrafluoropropane (HCFC-234cb) 1,3-Dichloro-1,1,2,2-tetrafluoropropane (HCFC-234cc) 1,1-Dichloro-1,2,2,3-tetrafluoropropane (HCFC-234cd) 2,3-Dichloro-1,1,1,3-tetrafluoropropane (HCFC-234da) 1,2-ジクロロ-1,2,3,3-tetrafluoropropane (HCFC-234db) 1,3-ジクロロ-1,1,3,3-tetrafluoropropane (HCFC-234fa) 1,1-ジクロロ-1,3,3,3-tetrafluoropropane (HCFC-234fb)	$C_3H_2F_4Cl_2$	127564-83-4 146916-90-7 149329-24-8 149329-25-9 17705-30-5 4071-01-6 425-94-5 64712-27-2 70192-63-1 70341-81-0 76140-39-1
			HCFC-235 Chloropentafluoropropane (HCFC-235) 1-Chloro-1,2,2,3,3-pentafluoropropane (HCFC-235ca) 3-Chloro-1,1,1,2,3-pentafluoropropane (HCFC-235cb) 1-Chloro-1,1,2,2,3-pentafluoropropane (HCFC-235cc) 2-Chloro-1,1,1,3,3-pentafluoropropane (HCFC-235da) 1-Chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	$C_3H_2F_5Cl$	108662-83-5 134237-41-5 134251-06-2 28103-66-4 422-02-6 460-92-4 677-55-4 679-99-2
			HCFC-241 Tetrachlorofluoropropane (HCFC-241) 1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241db)	$C_3H_3FCl_4$	134190-49-1 666-27-3
			HCFC-242 Trichlorodifluoropropane (HCFC-242) 1,3,3-Trichloro-1,1-difluoropropane (HCFC-242fa)	$C_3H_3F_2Cl_3$	127564-90-3 134237-42-6 460-63-9
			HCFC-243 Dichlorotrifluoropropane (HCFC-243) 1,3-Dichloro-1,2,2-trifluoropropane (HCF-243ca) 1,1-Dichloro-2,2,3-trifluoropropane (HCF-243cb) 1,1-Dichloro-1,2,2-trifluoropropane (HCF-243cc) 2,3-Dichloro-1,1,1-trifluoropropane (HCF-243da) 2,3-Dichloro-1,1,1-trifluoropropane (HCF-243db) 1,3-Dichloro-1,2,3-trifluoropropane (HCF-243ea) 1,3-Dichloro-1,1,2-trifluoropropane (HCF-243ec) 3,3-Dichloro-1,1,1-trifluoropropane (HCF-243fa)	$C_3H_3F_3Cl_2$	116890-51-8 134237-43-7 149329-27-1 151771-08-3 338-75-0 460-69-5 67406-68-2 70192-70-0 7125-99-7
			HCFC-244 Chlorotetrafluoropropane (HCFC-244) 2-Chloro-1,2,3,3-tetrafluoropropane (HCFC-244ba) 2-Chloro-1,1,1,2-tetrafluoropropane (HCFC-244bb) 3-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244ca) 1-Chloro-1,2,2,3-tetrafluoropropane (HCFC-244cb) 1-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244cc) 2-Chloro-1,1,3,3-tetrafluoropropane (HCFC-244da) 2-Chloro-1,1,1,3-tetrafluoropropane (HCFC-244db) 3-Chloro-1,1,2,3-tetrafluoropropane (HCFC-244ea) 3-Chloro-1,1,1,2-tetrafluoropropane (HCFC-244eb) 1-Chloro-1,1,2,3-tetrafluoropropane (HCFC-244ec) 3-Chloro-1,1,1,3-tetrafluoropropane (HCFC-244fa) 1-Chloro-1,1,3,3-tetrafluoropropane (HCFC-244fb)	$C_3H_3F_4Cl$	117970-90-8 134190-50-4 19041-02-2 2730-64-5 421-73-8 421-75-0 67406-66-0 679-85-6
			HCFC-251 Trichlorofluoropropane (HCFC-251) 1,1,2-Trichloro-1-fluoropropane (HCFC-251dc) 1,1,3-Trichloro-1-fluoropropane (HCFC-251fb)	$C_3H_2FCl_3$	134190-51-5 421-41-0 818-99-5
			HCFC-252 Dichlorodifluoropropane (HCFC-252) 1,3-Dichloro-2,2-difluoropropane (HCFC-252ca) 1,1-Dichloro-2,2-difluoropropane (HCFC-252cb) 1,2-Dichloro-1,1-difluoropropane (HCFC-252dc) 1,1-Dichloro-1,2-difluoropropane (HCFC-252ec) 1,3-Dichloro-1,1-difluoropropane (HCFC-252fb)	$C_3H_2F_2Cl_2$	1112-01-2 1112-36-3 134190-52-6 819-00-1
			HCFC-253 Chlorotrifluoropropane (HCFC-253) 2-Chloro-1,2,3-trifluoropropane (HCFC-253ba) 2-Chloro-1,1,2-trifluoropropane (HCFC-253bb) 1-Chloro-2,2,3-trifluoropropane (HCFC-253ca) 1-Chloro-1,2,2-trifluoropropane (HCFC-253cb) 3-Chloro-1,1,2-trifluoropropane (HCFC-253ea) 1-Chloro-1,2,3-trifluoropropane (HCFC-253eb) 1-Chloro-1,1,2-trifluoropropane (HCFC-253ec) 3-Chloro-1,3,3-trifluoropropane (HCFC-253fa) 3-Chloro-1,1,1-trifluoropropane (HCFC-253fb) 1-Chloro-1,1,3-trifluoropropane (HCFC-253fc)	$C_3H_2F_3Cl$	134237-44-8 26588-23-8 460-35-5 56758-54-4 70192-76-6
			HCFC-261 Dichlorofluoropropane (HCFC-261) 1,2-Dichloro-2-fluoropropane (HCFC-261ba) 1,1-Dichloro-1-fluoropropane (HCFC-261fc)	$C_3H_5FCl_2$	127404-11-9 134237-45-9 420-97-3 7799-56-6
			HCFC-262 Chlorodifluoropropane (HCFC-262) 1-Chloro-2,2-difluoropropane (HCFC-262ca) 2-Chloro-1,3-difluoropropane (HCFC-262da) 3-Chloro-1,1-difluoropropane (HCFC-262fa) 1-Chloro-1,3-difluoropropane (HCFC-262fb) 1-Chloro-1,1-difluoropropane (HCFC-262fc)	$C_3H_5F_2Cl$	102738-79-4 134190-53-7 420-99-5 421-02-3
			HCFC-271 Chlorofluoropropane (HCFC-271) 2-Chloro-2-fluoropropane (HCFC-271ba) 2-Chloro-1-fluoropropane (HCFC-271d) 1-Chloro-1-fluoropropane (HCFC-271fb)	C_3H_6FCl	134190-54-8 420-44-0 430-55-7

(*) The substance which has the strongest possibility of being used in commerce.
 (*)The substance name and the other information like CAS No etc. listed in this table are examples from the contents which our company has investigated. These do not always cover all information. Some of the substances may be customarily called by a name of the article on behalf. For details, we hope that your company will confirm it by the information obtained from the upper stream of the supply chain.

Appendix 2. PFOS/PFOS relative compounds
 (Perfluorooctane sulfonates)

Rev.1
 2017.12.26

No	Substance name	例示 CAS No
1	2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl methacrylate(PFOS)	127133-66-8
2	Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-(oxiranylmethyl)(PFOS)	129813-71-
3	1-Octanesulphonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-(PFOS)	13417-01-1
4	2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl	14650-24-9
5	Fatty acids, C18-unsatd., trimers, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl esters(PFOS)	148240-78-2
6	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol(PFOS)	148684-79-1
7	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate(PFOS)	160901-25-7
8	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl]amino]-N,N,N-trimethyl-, iodide(PFOS)	1652-63-7
9	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-(PFOS)	1691-99-2
10	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-(PFOS); Perfluorooctane sulfonate acid	1763-23-1
11	1-Octanesulphonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-,potassium salt(PFOS)	178094-69-4
12	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl)-, polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked(PFOS)	178535-22-3
13	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-, reaction products with benzene-chlorine-sulphur chloride (S2Cl2) reaction(PFOS)	182700-90-9
14	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, ethyl ester(PFOS)	1869-77-8
15	Sulphonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid(PFOS)	192662-29-6
16	1-Octanesulphonamide, N,N',N''- [phosphinylidynetris(oxy-2,1-ethanediyl)]tris[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-(PFOS)	2250-98-8
17	1-Octanesulphonamide, N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-(PFOS)	2263-09-4
18	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-(PFOS)	24448-09-7
19	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-(PFOS)	24924-36-5
20	1-Decanaminiium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulphonic acid (1:1)(PFOS)	251099-16-8
21	2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester(PFOS)	25268-77-3
22	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt(PFOS); Perfluorooctane sulfonate potassium salt	2795-39-3
23	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt(PFOS); Perfluorooctane sulfonate ammonium salt	29081-56-9
24	Poly(oxy-1,2-ethanediyl), alpha-[2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl]-omega-hydroxy-(PFOS)	29117-08-6
25	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt(PFOS); Perfluorooctane sulfonate lithium salt	29457-72-5
26	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]- (PFOS)	2991-50-6
27	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, potassium salt(PFOS)	2991-51-7
28	1-Octanesulphonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-(PFOS)	30295-51-3
29	1-Octanesulphonamide, N,N'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt(PFOS)	30381-98-7
30	Fatty acids, linseed-oil, dimers, 2- [[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl esters(PFOS)	306973-46-6
31	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxystearic acid and 2,4-TDI, ammonium salts(PFOS)	306973-47-7

No	Substance name	例示 CAS No
32	Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl](PFOS)	306974-19-6
33	Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propylgroup] - terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and stearyl methacrylate(PFOS)	306974-28-7
34	Sulphonic acids, C6-8-alkane, perfluoro, compounds with polyethylene-polypropylene glycol bis(2-aminopropyl) ether(PFOS)	306974-45-8
35	Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino] ethyl esters(PFOS)	306974-63-0
36	Propanoic acid, 3-hydroxy-2- (hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N',2-tris(6-isocyanatoethyl)imidodicarbonic diamide, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulphon(PFOS)	306975-56-4
37	Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4- isocyanatobenzene] and 1,2,3-propanetriol, reaction products with Nethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulphon(PFOS)	306975-57-5
38	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2- [methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and vinylidene chloride(PFOS)	306975-62-2
39	Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(hydroxyethyl)-N-methyl perfluoro C4-8-alkane	306975-84-8
40	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride(PFOS)	306975-85-9
41	1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, bromide, polymers with Bu acrylate, Bu methacrylate and 2-methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate(PFOS)	306976-25-0
42	2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulphonamides(PFOS)	306976-55-6
43	2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolysed, compounds with 2,2'-(methylimino)bis(PFOS)	306977-58-2
44	2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and vinylidene chloride(PFOS)	306978-04-1
45	Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methyl perfluoro-C4-8-alkane sulphonamides- and stearyl alc.-blocked(PFOS)	306978-65-4
46	Poly(oxy-1,2-ethanediyl), alpha-[2-(methylamino)ethyl]-omega-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulphonyl](PFOS)	306979-40-8
47	Sulphonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediy]bis[(2-oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-(PFOS)	306980-27-8
48	1-Octanesulphonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-(PFOS); Perfluoro-1-octanesulfonyl fluoride	307-35-7
49	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-	31506-32-8
50	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester(PFOS)	376-14-7
51	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl]amino]-N,N',N"-trimethyl-, chloride(PFOS)	38006-74-5
52	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]- (PFOS)	3820-83-5
53	2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester(PFOS)	383-07-3

No	Substance name	例示 CAS No
54	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, sodium salt(PFOS)	3871-50-9
55	Sodium perfluorooctanesulfonate	4021-47-0
56	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	4151-50-2
57	2-Propenoic acid, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester(PFOS)	423-82-5
58	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-(PFOS)	423-86-9
59	Perfluorooctane sulfonate anion(PFOS)	45298-90-6
60	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(phenylmethyl)-(PFOS)	50598-29-3
61	Poly(oxy-1,2-ethanediyl), alpha-[2-[[[(heptadecafluorooctyl)sulphonyl]propylamino]ethyl]-omega-hydroxy-(PFOS)	52550-45-5
62	Ethanaminium, N,N',N''-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulphonic acid (1:1)(PFOS):	56773-42-3
63	Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(heptadecafluorooctyl)sulphonyl]oxy]phenyl]amino]carbonyl]-, monopotassium	57589-85-2
64	2-Propenoic acid, 4-[[[(heptadecafluorooctyl)sulphonyl]methylamino]butyl ester(PFOS)	58920-31-3
65	2-Propenoic acid, 2-methyl-, 4-[[[(heptadecafluorooctyl)sulphonyl]methylamino]butyl	61577-14-8
66	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]- (PFOS)	61660-12-6
67	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trichlorosilyl)propyl]- (PFOS)	67939-42-8
68	1-Octanesulphonamide, N-[3-(dimethylamino)propyl]- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, monohydrochloride(PFOS)	67939-88-2
69	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-, diammonium salt(PFOS)	67969-69-1
70	Carbamic acid, (4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl] ester(PFOS)	68081-83-4
71	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(4-hydroxybutyl)-N-methyl-(PFOS)	68239-73-6
72	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl](3-sulphopropyl)amino]-N-(2-hydroxyethyl)-N,N-dimethyl-, hydroxide, inner salt(PFOS)	68298-11-3
73	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl]amino]-N,N',N''-trimethyl-, iodide, ammonium salt(PFOS)	68310-75-8
74	2-Propenoic acid, eicosyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl](PFOS)	68329-56-6
75	2-Propenoic acid, polymer with 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-propenoate(PFOS)	68541-80-0
76	2-Propenoic acid, butyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, 2-methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-	68555-90-8
77	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate(PFOS)	68555-91-9
78	2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-(PFOS)	68555-92-0
79	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene](PFOS)	68608-14-0

No	Substance name	例示 CAS No
80	N-(2-hydroxyethyl)-1-butan Sulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)- 1-heptanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulphonamide, N-ethyl-1,1,2,(PFOS)	68649-26-3
81	2-Propenoic acid, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(trideca(PFOS)	68867-60-7
82	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-prope(PFOS)	68877-32-7
83	Chromium, diaquatetrachloro[μ-[N-ethyl-N- [(heptadecafluorooctyl)sulphonyl] glycinato-kappaO:kappaO']]-μ-hydroxybis(2-methylpropanol)di-(PFOS)	68891-96-3
84	2-Propenoic acid, eicosyl ester, polymers with branched octylacrylate, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl acrylate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl acrylate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino](PFOS)	68909-15-9
85	Poly(oxy-1,2-ethanediyl), alpha-[2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl]-omega-methoxy-(PFOS)	68958-61-2
86	Bis(2-hydroxyethyl)ammonium perfluorooctanesulfonate	70225-14-8
87	2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-(PFOS)	70776-36-2
88	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with piperidine (1:1)	71463-74-6
89	Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]propyl]-(PFOS)	71463-78-0
90	Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]propyl]-, diethyl	71463-80-4
91	2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl] (PFOS)	71487-20-2
92	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-(PFOS)	754-91-6
93	Magnesium bis[heptadecafluorooctanesulphonate]	91036-71-4
94	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)(PFOS)	91081-99-1
95	Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-ethoxyethyl 2-propenoate, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate and oxiranylmethyl 2-methyl-2-(PFOS)	92265-81-1
96	1-Propanesulphonic acid, 3-[[3-(dimethylamino)propyl][(heptadecafluorooctyl) sulphonyl]amino]-2-hydroxy-, monosodium salt(PFOS)	94133-90-1
97	Carbamic acid, [5-[[[2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethoxy]carbonyl]amino]-2-	94313-84-5
98	Sulphonamides, C7-8-alkane, perfluoro, N-methyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride(PFOS)	98999-57-6
99	Perfluorooctane sulfonates(PFOS) C ₈ F ₁₇ SO ₂ X (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers) [group]	JAMP-SN0035

Appendix 3:

REACH Annex XVII Restriction of placing on the market and use

*Refer the original text about the each restriction of use.

http://ec.europa.eu/enterprise/sectors/chemicals/reach/restrictions/index_en.htm

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No.	Chemical Name	Sample CAS No.	Main use of restriction	Maximum acceptable value
1	Poly chlorinated terphenyls (PCTs)	61788-33-8*	Substances, mixtures, including waste oils, or equipment	50ppm
2	Chloro-1-ethylene (monomer vinyl chloride)	75-01-4	Aerosols dispensers	Banning the use
3	Liquid substances or preparations, which are regarded as dangerous according to the definitions in Regulation 1272/2008/EC and Directive 1999/45/EC.	—	Ornamental oil lamps, etc.	Banning the use
4	Tris(2,3-dibromopropyl)phosphate	126-72-7	Textile articles coming into contact with the skin.	Banning the use
5	Benzene	71-43-2	Substances or mixtures	1000ppm
6	Asbestos		Toys	5ppm
	(a) Crocidolite	12001-28-4	Articles	Banning the use
	(b) Amosite	12172-73-5		
	(c) Anthophyllite asbestos	77536-67-5		
	(d) Actinolite asbestos	77536-66-4		
	(e) Tremolite asbestos	77536-68-6		
	(f) Chrysotile	12001-29-5 132207-32-		
7	Tris-aziridinyl-phosphin oxide	545-55-1	Textile articles, come into contact with the skin.	Banning the use
8	Polybromobiphenyls (PBB)	59536-65-1	Textile articles, come into contact with the skin.	Banning the use
9	(a) Soap bark powder (Quillaja saponaria) and its derivatives containing saponines	68990-67-0	Mixtures or articles in amenity goods like sneezing powder and stink bombs	Banning the use (stink bombs : under 1.5ml)
	(b) Powder of the roots of Helleborus viridis and Helleborus niger	—		
	(c) Powder of the roots of Veratrum album and Veratrum nigrum	—		
	(d) benzidine and/or its derivatives	92-87-5		
	(e) o-nitrobenzaldehyde	552-89-6		
	(f) Wood powder	—		
10	(a) Ammonium sulphide	12135-76-1		
	(b) Ammonium hydrogen sulphide	12124-99-1		
	(c) Ammonium polysulphide	9080-17-5		
11	Volatile esters of bromoacetic acids			
	(a) Methyl bromoacetate	96-32-2		
	(b) Ethyl bromoacetate	105-36-2		
	(c) Propyl bromoacetate	35223-80-4		
	(d) Butyl bromoacetate	18991-98-5		
12	2-naphthylamine and its salts	91-59-8	Substances or mixtures	1000ppm
13	Benzidine and its salts	92-87-5		
14	4-nitrobiphenyl	92-93-3		
15	4-aminobiphenyl and its salts	92-67-1		
16	Lead carbons			
	(a) Neutral anhydrous carbonate (PbCO3)	598-63-0		
	(b) Trilead-bis(carbonate)-dihydroxide 2PbCO3-Pb(OH)2	1319-46-6		
17	Lead sulphates			
	(a) Lead sulphates(PbSO4)	7446-14-2		
	(b) Lead sulphates(PbxSO4)	15739-80-7		
18a		7439-97-6	Ffever thermometers, measuring devices including mercury	Banning the use (*) from 2014/4/10
18	Mercury compounds	—	boats and ships, equipment used for fish or shellfish farming, preservation of wood,	Banning the use
19	Arsenic compounds	—		
20	Organostannic compounds	—	Biocide, the treatment of industrial	Banning the use
	Trisubstituted organostannic compounds	—	Articles	1000ppm of Sn
	Tributyltin (TBT) compounds, Triphenyltin (TPPT) compounds etc.			
	Dibutyltin (DBT) compounds	—		
	Diocetyl tin (DOT) compounds	—		
21	Di-μ-oxo-di-n-butylstanniohydroxyborane (DBB)	75113-37-0	Substances or mixtures	1000ppm
22	Cadmium and its compounds	7440-43-9 etc.	Plastic, brazing fillers, jewelry goods, cadmium plating except special use	100ppm
			Paint	1000ppm
23	Monomethyl-tetrachloridiphenyl methane	76253-60-6	Substances, mixtures or articles containing the substance	Banning the use
24	Monomethyl-dichlorodiphenyl methane	—		
25	Monomethyl-dibromo-diphenyl methane	99688-47-8		
26	Nickel and its compounds	7440-02-0 etc.	The use intended to come into direct and prolonged contact with the skin (Discharge > 0.2 μg/cm2/week)	Banning the use (0.2 μg/cm2/week)
27	Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2) and listed as follows:	—	Supplies to the general public (As substances or in mixtures)	The concentration limit specified in Regulation (EC) No 1272/2008(CLP)
28	Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2) and listed as	—		
29	Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows:	—		
30	(a) Creosote	8001-58-9	Substances or mixtures where the substance or mixture is intended for the treatment of wood	Banning the use
	(b) Creosote oil	61789-28-4		
	(c) Distillates (coal tar), naphthalene oils	84650-04-4		
	(d) Creosote oil, acenaphthene fraction	90640-84-9		
	(e) Distillates (coal tar), upper	65996-91-0		
	(f) Anthracene oil	90640-80-5		
	(g) Tar acids, coal, crude	65996-85-2		
	(h) Creosote, wood	8021-39-4		
	(i) Low temperature tar oil, alkaline	122384-78-5		

No.	Chemical Name	Sample CAS No.	Main use of restriction	Maximum acceptable value
31	Chloroform	67-66-3	Surface treatment , cleaner	1000ppm
32	(Missing number)	-		
33	1,1,2-trichloroethane	79-00-5		
34	1,1,2,2-tetrachloroethane	79-34-5		
35	1,1,1,2-tetrachloroethane	630-20-6		
36	Pentachloroethane	76-01-7		
37	1,1-dichloroethylene	75-35-4		
38	(Missing number)	-		
39	Substances meeting the criteria of flammability in Directive 67/548/EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	-	Substances or mixtures in aerosol dispensers for the general public for entertainment and decorative purposes	Banning the use
40	Hexachloroethane	67-72-1	substance or mixtures where the substance or mixture is intended for the manufacturing or processing of non-ferrous metals	Banning the use
41	(Missing number)	-		
42	Azo colourants and azo dyes (may release the aromatic amines listed in Appendix	-	Articles intended to come into direct and prolonged contact with the skin (textile and leather articles)	30ppm
	4-aminoazobenzene	60-09-3		
	o-anisidine;	90-04-0		
	2-methoxyaniline			
	2-naphthylamine	91-59-8		
	3,3'-dichlorobenzidine;	91-94-1		
	3,3'-dichlorobiphenyl-4,4'-ylenediamine			
	4-aminobiphenyl	92-67-1		
	benzidine	92-87-5		
	o-toluidine;	95-53-4		
	2-aminotoluene			
	4-chloro-o-toluidine	95-69-2		
	4-methyl-m-phenylenediamine	95-80-7		
	o-aminoazotoluene;	97-56-3		
	4-amino-2',3'-dimethylazobenzene;			
	4-o-tolylazo-o-toluidine			
	5-nitro-o-toluidine	99-55-8		
	2,2'-dichloro-4,4'-methylenedianiline;	101-14-4		
	4,4'-methylene bis(2-chloroaniline)			
	4,4'-diaminodiphenylmethane;	101-77-9		
	4,4'-methylenedianiline			
	4,4'-oxydianiline	101-80-4		
	4-chloroaniline	106-47-8		
	o-dianisidine;	119-90-4		
	3,3'-dimethoxybenzidine			
	4,4'-bi-o-toluidine;	119-93-7		
	3,3'-dimethylbenzidine			
	p-cresidine;	120-71-8		
	6-methoxy-m-toluidine			
	2,4,5-trimethylaniline	137-17-7		
	4,4'-thiodianiline	139-65-1		
	4-methoxy-m-phenylenediamine	615-05-4		
	4,4'-methylenedi-o-toluidine	838-88-0		
	(Missing number)	-		
43	Diphenyl ether, octabromo derivative	-	Substances, mixtures or articles	1000ppm
44	(a) Nonylphenol	25154-52-3	Cleaner, etc.	1000ppm
45	(b) Nonylphenol ethoxylates	-		
46	Chromium VI compounds		Cement	2ppm of the total dry weight
			- Leather articles coming into contact with the skin	3ppm of the total dry weight of the leather
			- Articles containing leather parts coming into contact with the skin	
47	Toluene	108-88-3	Adhesives or spray paints (for supply to the general public)	1000ppm
48	Trichlorobenzene	120-82-1	As substances, in mixtures	1000ppm
49	Polycyclic-aromatic hydrocarbons (PAH)	-	The production of tyres	1ppm(BaP) 10ppm(the total of PAH)
	(a) Benzo(a)pyrene (BaP)	50-32-8		
	(b) Benzo(e)pyrene (BeP)	192-97-2	Articles for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity (Apply after 27 December 2015)	1ppm
	(c) Benzo(a)anthracene (BaA)	56-55-3		
	(d) Chrysene (CHR)	218-01-9		
	(e) Benzo(b)fluoranthene (BbFA)	205-99-2		
	(f) Benzo(j)fluoranthene (BjFA)	205-82-3	Toys, including activity toys, and childcare article if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity (Apply after 27 December 2015)	0.5ppm
	(g) Benzo(k)fluoranthene (BkFA)	207-08-9		
	(h) Dibenzo(a, h)anthracene (DBAhA)	53-70-3		
50	The following phthalates		Toys and childcare articles	1000ppm
	(a) Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7		
	(b) Dibutyl phthalate (DBP)	84-74-2		
	(c) Benzyl butyl phthalate (BBP)	85-68-7		
51	The following phthalates		Toys and childcare articles	1000ppm
	(a) Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0		
	(b) Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1		
	(c) Di-n-octyl phthalate (DNOP)	117-84-0		
52	(Missing number)	-		
53	2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	Paints, paint strippers, cleaning agents, self-shining emulsions or floor sealants	1000ppm
54	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	Spray paints for supply to the general public, etc	30000ppm
55	Methylenediphenyl diisocyanate (MDI) including the following specific isomers	26447-40-5	Mixtures for supply to the general public	1000ppm
	(a) 4,4'-Methylenediphenyl diisocyanate	101-68-8		
	(b) 2,4'-Methylenediphenyl diisocyanate	5873-54-1		
	(c) 2,2'-Methylenediphenyl diisocyanate	2536-05-2		

No.	Chemical Name	Sample CAS No.	Main use of restriction	Maximum acceptable value
56	Cyclohexane	110-82-7	Adhesives	1000ppm
57	Ammonium nitrate (AN)	6484-52-2	Substances or in mixtures that contain more than 28 % by weight of nitrogen in relation to AN for use as a solid fertiliser Substances or in mixtures that contain more than 16 % by weight of nitrogen in relation to AN	Banning the use Banning the use except agriculture or licensed user
58	Dichloromethane	75-09-2	Paint strippers	1000ppm
59	Acrylamide	79-06-1	Grouting applications	1000ppm
60	Dimethylfumarate (DMF)	624-49-7	Articles	0.1ppm
61	Phenylmercury compounds* (a) Phenylmercury acetate (b) Phenylmercury propionate (c) Phenylmercury 2-ethylhexanoate (d) Phenylmercury octanoate (e) Phenylmercury neodecanoate	62-38-4 103-27-5 13302-00-6 13864-38-5 26545-49-3	Articles Mixtures Substances *After 10 October 2017	mercury 100ppm or Banning the use
62	Lead and its compounds	—	Jewelry articles	500ppm
63	1,4-dichlorobenzene	106-46-7	— Substance or — Constituent of mixtures in a concentration equal to or greater than 1% by weight where the substance or the mixture is placed on the market for use or used as an air freshener or deodoriser in toilets, homes, offices or other indoor public areas.	Banning the use or placing on the market
64	Inorganic ammonium salts	—	Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2.12 mg/m ³) under the test	less than 3 ppm by volume (2.12 mg/m ³) under the test conditions specified in paragraph
65	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	Shall not be placed on the market in thermal paper in a concentration equal to or greater than 0.02 % by weight after 2	200ppm
66	C9-C14 linear and/or branched perfluorocarboxylic acids (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related	—		
67	Methanol	67-56-1	Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than	0.6 % by weight
68	Octamethylcyclotetrasiloxane (D4); Decamethylcyclopentasiloxane (D5)	—	Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020.	0,1 % by weight of either substance
69	1-methyl-2-pyrrolidone	872-50-4	Shall not be placed on the market as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020 unless manufacturers, importers and downstream users have included in the relevant chemical safety reports and safety data sheets, Derived No-Effect Levels (DNELs) relating to exposure of workers of 14,4 mg/m ³ for exposure by inhalation and 4,8 mg/kg/day	←
70	The following substances which are classified as carcinogenic, mutagenic or toxic for reproduction, category 1A or 1B (See group members) The substances listed in column 1 of the Table	—	←	←
71	(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silanetriol Any of its mono-, di- or tri-O-(alkyl) derivatives (TDFAs)	—	Shall not be placed on the market for supply to the general public after 2 January 2021 individually or in any combination, in a concentration equal to or greater than 2 ppb by weight of the mixtures containing organic solvents, in	2ppb
72	Diisocyanates O=C=N-R-N=C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length	—	Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023 Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24	0,1 % by weight
73	Substances in tattoo inks and permanent makeup	—	Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances	←
74	N,N-dimethylformamide	68-12-2	Shall not be placed on the market as a substance on its own, as a constituent of other substances, or in mixtures in a concentration equal to or greater than 0,3 % after 12 December 2023 unless manufacturers, importers and downstream users have included in the relevant chemical safety reports and safety data sheets, Derived No-Effect Levels (DNELs) relating to exposure of workers of 6 mg/m ³ for exposure by inhalation and 1.1	0.3%

*Add a postscript to be plain though it was non-mention in the original

Appendix 4. List of aromatic amines

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No.	Substance Name	CAS No
1	4-Aminoazobenzene 4-Phenylazoaniline	60-09-3
2	2-Methoxyaniline o-Anisidine	90-04-0
3	2-Naphthylamine	91-59-8
4	3,3'-Dichlorobenzidine 3,3'-Dichlorobiphenyl-4,4'-diamine	91-94-1
5	4-Aminobiphenyl Xenylamine Biphenyl-4-ylamine	92-67-1
6	Benzidine 4,4'-Biphenyldiamine 4,4'-Diaminobiphenyl	92-87-5
7	o-Toluidine 2-Aminotoluene	95-53-4
8	4-Chloro-o-toluidine	95-69-2 [1] 3165-93-3 [2]
9	4-Methyl-m-phenylenediamine 2,4-Toluenediamine	95-80-7
10	o-Aminoazotoluene 4-Amino-2',3-dimethylazobenzene 4-o-Tolylazo-o-toluidine	97-56-3
11	5-Nitro-o-toluidone 2-Amino-4-nitrotoluene	99-55-8 [1] 51085-52-0 [2]
12	2,2'-Dichloro-4,4'-methylene-dianiline 4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4
13	4,4'-Diaminodiphenylmethane 4,4'-Methylenedianiline	101-77-9
14	4,4'-Oxydianiline 4,4'-Diaminodiphenylether	101-80-4
15	4-Chloroaniline p-Chloroaniline	106-47-8
16	3,3'-Dimethoxybenzidine o-Dianisidine	119-90-4
17	4,4'-Bi-o-toluidine 3,3'-Dimethylbenzidine	119-93-7
18	6-Methoxy-m-toluidine 2-Methoxy-5-methylaniline p-Cresidine	120-71-8
19	2,4,5-Trimethylaniline	137-17-7 [1] 21436-97-5 [2]
20	4,4'-Thiodianiline 4,4'-Diaminodiphenyl sulfide	139-65-1
21	2,4-Diaminoanisole 4-Methoxy-m-phenylenediamine	615-05-4 [1] 39156-41-7 [2]
22	4,4'-Methylenedi-o-toluidine 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0
23	2,6-Xylidine 2,6-Dimethylaniline	87-62-7
24	2,4-Xylidine 2,4-Dimethylaniline	95-68-1

*: Although these substances are not subject to the Restriction of REACH regulation in EU, they are applicable in China and South Korea.

Appendix 5. List of Hexabromocyclododecane (HBCD or HBCDD)

Rev.1

2017.12.26

No.	Substance Name	CAS No
1	Alpha-hexabromocyclododecane; rel-(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	134237-50-6
2	Beta-hexabromocyclododecane; rel-(1R,2S,5R,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	134237-51-7
3	Gamma-hexabromocyclododecane; rel-(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	134237-52-8
4	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-17-7
5	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-18-8
6	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-19-9
7	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	169102-57-2
8	Hexabromocyclododecane	25637-99-4
9	1,2,5,6,9,10-hexabromocyclododecane	3194-55-6
10	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	4736-49-6
11	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	65701-47-5
12	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-15-5
13	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-16-6
14	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	678970-17-7

Appendix 6. List of Perfluorooctanoic acid (PFOA) and its salts and its esters

Rev.1
2017.12.26

No.	Substance Name	CAS No
1	Perfluorooctanoic acid (PFOA)	335-67-1
2	Perfluorooctanoic acid ammonium salt	3825-26-1
3	Perfluorooctanoic acid sodium salt	335-95-5
4	Perfluorooctanoic acid potassium salt	2395-00-8
5	Perfluorooctanoic acid silver salt	335-93-3
6	Perfluorooctanoic acid fluoride	335-66-0
7	Perfluorooctanoic acid methyl ester	376-27-2
8	Perfluorooctanoic acid ethyl ester	3108-24-5