Test Report (PFAS)

No.: CANEC25025827403 **Date:** Oct 30, 2025

Client Name: KINGBOARD LAMINATES HOLDINGS LIMITED

Client Address: 23/F., DELTA HOUSE, NO. 3 ON YIU STREET, SHATIN, N.T. HONG KONG.

Sample Name: CEM-1

Model No.: KB-5252

Client Ref. Information: KB-5150G

The above sample(s) and information were provided by the client.

SGS Job No.: GZP25-029303

Sample Receiving Date: Oct 21, 2025

Testing Period: Oct 21, 2025 ~ Oct 29, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

630 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie
Approved Signatory

Scan to see the report

E2741623

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Test Sample:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0258274-0001.C001	Copper clad yellow laminate(only test part without red "KB" printing)

630 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method:
Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Results: (Substances in the reporting list of PFAS)

Substance Name	CAS No.	A1 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

Notes:
(1) The table above only shows detected PFAS, and PFAS that below MDL are not reported. Please refer to Appendix for the full list of tested PFAS.
(2) MDL = Method Detection Limit
ND = Not detected (lower than MDL)
(3) The target PFAS is prohibited, and this test requirement is quoted from the client. If PFAS is detected, it is recommended to refer to relevant regulation to confirm the relevant requirements of PFAS.
(4) ^=Substances refer to its salts/derivative listed in Appendix.
(5) The conclusion is only applicable to the substance list in the report.
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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(1) List of PFAS, its salts & derivatives

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
1	PFOS, its salts & derivatives	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.010
2		Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3	--
3		Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	--
4		Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0	--
5		Ammonium perfluorooctanesulfonate (PFOS-NH_4)	29081-56-9	--
6		Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8	--
7		Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3	--
8		N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8	--
9		TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7	--
10		Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7	--
11		Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4	--
12		Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	--
13		Perfluorooctanesulfonate	45298-90-6	--
14		Triethylammonium perfluorooctane sulfonate (PFOS-$N(C_2H_5)_3$)	54439-46-2	--
15		Tetramethylammonium perfluorooctane sulfonate (PFOS-$N(CH_3)_4$)	56773-44-5	--
16		N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9	--
17		N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0	--
18		Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8	--
19		Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0	--
20		1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4	--
21		N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4	--
22		Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P ($C_4H_9)_4$))	2185049-59-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
23		Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7	--
24		heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3	--
25		Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7	--
26		Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9	--
27	FOSAA, its salts	Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.010
28		N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6	--
29		N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	--
30		N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5	--
31	N-MeFOSAA, its salts	N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.010
32		2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7	--
33		Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5	--
34	N-EtFOSAA, its salts	N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.010
35		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7	--
36		2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	--
37		Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH_4)	2991-52-8	--
38		Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	--
39	--	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.010
40	--	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	0.010
41	--	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	0.010
42	--	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.010
43	PFOSA, its salts	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	0.010
44		Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	--
45		Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
46		Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0	--
47		Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH_4)	76752-72-2	--
48		Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-$C_6H_{15}N$)	76752-82-4	--
49	PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1	0.010
50		Sodium perfluorooctanoate (PFOA-Na)	335-95-5	--
51		Potassium perfluorooctanoate (PFOA-K)	2395-00-8	--
52		Silver perfluorooctanote (PFOA-Ag)	335-93-3	--
53		Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	--
54		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	--
55		Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	--
56		Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	--
57		Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	--
58		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6	--
59		Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH($C_4H_{10}N$))	423-52-9	--
60		Pentadecafluorooctanoate (anion)	45285-51-6	--
61		Perfluorooctanoic Anhydride	33496-48-9	--
62		N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9	--
63		Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7	--
64		Tetrapropylammonium perfluorooctanoate	277749-00-5	--
65		Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H_2O)$_2$)	98065-31-7	--
66		Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6	--
67		Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C_5H_5N)	95658-47-2	--
68		pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7	--
69		N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-$C_{11}H_{26}N$)	927835-01-6	--
70		Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8	--
71	8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010
72		Potassium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-K)	438237-73-1	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
73		Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH_4)	149724-40-3	--
74		Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1	--
75		2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7	--
76		2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)	27619-90-5	--
77	--	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.200
78	--	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.200
79	--	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.100
80	--	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.100
81	--	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.200
82	8:2 FTCA, its salts	2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5	0.010
83		Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C_4H_9)$_4$)	882489-14-7	--
84	--	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.100
85	--	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	0.100
86	--	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC_2H_5)$_3$)	101947-16-4	0.100
87	8:2diPAP, its salts	Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1	0.010
88		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	--
89		Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	--
90		Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH_4)	93776-20-6	--
91		8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1	--
92	8:3 FTCA, its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	0.010
93		Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1	--
94		2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8	--
95	--	1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	0.200
96	--	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.010
97	--	1H,1H,2H,2H-Perfluorodecyltrichlorosilane	78560-44-8	0.100
98	--	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	83048-65-1	
99	--	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.010
100	--	6:8 Perfluorophosphinic acid (6:8 PFPi)	610800-34-5	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
101	8:8 PFPi, its salts	8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1	0.010
102		Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPi-Na)	500776-69-2	--
103		Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5	--
104		Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6	--
105	--	1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	0.100
106	8:2 monoPAP, its salts	8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	0.100
107		8:2 Fluorotelomer diammonium phosphate	93857-44-4	-
108		Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	-
109		Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	-
110		3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	-
111		Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	-
112		Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	-
113		Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	-
114	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
115		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
116		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH_4)	4149-60-4	--
117		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
118		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
119		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
120		Methanaminium perfluorononanoate (PFNA-$NH_3(CH_3)$)	77032-23-6	--
121		Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) PFNA-$NH_2(C_2H_5)_2$)	77032-27-0	--
122		Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-$NH_2(CH_3)_2$)	77032-24-7	--
123		Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-$NH(C_2H_5)_3$)	327176-80-7	--
124		Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-$NH_2(C_5H_{10})$)	95682-66-9	--
125		Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-$NH_3(C_6H_5)$)	95682-67-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
126		Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-$NH_3(C_6H_{11})$)	328531-06-2	--
127		Perfluorononanoate (anion)	72007-68-2	--
128		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-$C_{11}H_{12}N_4O_3S$)	298703-33-0	--
129		Perfluorononanoic anhydride (PFNAA)	228407-54-3	--
130		Perfluorononanoyl chloride (PFNA-Cl)	52447-23-1	--
131		Perfluorononanoyl fluoride (PFNA-F)	558-95-2	--
132	PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2	0.010
133		Sodium perfluorodecanoate (PFDA-Na)	3830-45-3	--
134		Perfluorodecanoate ammonium salt (PFDA-NH_4)	3108-42-7	--
135		Potassium perfluorodecanoate (PFDA-K)	51604-85-4	--
136		Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	--
137		Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	--
138		Perfluorodecanoate (anion)	73829-36-4	--
139		Perfluorodecanoic anhydride (PFDAA)	942199-24-8	--
140		Nonadecafluorodecanoyl chloride (PFDA-Cl)	307-38-0	--
141		Nonadecafluorodecanoyl Fluoride (PFDA-F)	--	--
142	PFUnDA, its salts	Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.010
143		Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	--
144		Ammonium perfluoroundecanoate (PFUnDA-NH_4)	4234-23-5	--
145		Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	--
146		Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	--
147		Perfluoroundecanoate (anion)	196859-54-8	--
148	PFDoDA, its salts	Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.010
149		Ammonium tricosafluorododecanoate (PFDoDA-NH_4)	3793-74-6	--
150		Perfluorododecanoate (anion)	171978-95-3	--
151	PFTrDA, its salts	Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.010
152		Ammonium perfluorotridecanoate (PFTrDA-NH_4)	4288-72-6	--
153		Sodium perfluorotridecanoate (PFTrDA-Na)	60872-01-7	--
154		Perfluorotridecanoate (anion)	862374-87-6	--
155	PFTDA, its salts	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
156		Perfluorotetradecanoate (anion)	365971-87-5	--
157	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010
158		Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
159	PFDS, its salts	Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	--
160		Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	--
161		Ammonium perfluorodecanesulfonate (PFDS-NH_4)	67906-42-7	--
162		Perfluorodecane sulfonate (anion)	126105-34-8	--
163		Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	--
164		Perfluorodecanesulphonyl fluoride (PFDS-F)	307-51-7	--
165		Perfluorodecanesulphonyl chloride (PFDS-Cl)	32779-61-6	--
166	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
167	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.100
168	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.100
169	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
170	10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.100
171		1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3	--
172		2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)	27619-91-6	--
173	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	0.100
174	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.100
175	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
176		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
177		ammonium nonadecafluorononanesulphonate (PFNS-NH_4)	17202-41-4	--
178		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--
179		Perfluorononane sulfonate (anion)	474511-07-4	--
180		Perfluorononanesulfonyl fluoride (PFNS-F)	68259-06-3	--
181	PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.010
182		Perfluoroundecanesulfonate (anion)	441296-91-9	--
183	PFDoDS, its salts	Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	0.010
184		Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1	--
185		Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3	--
186		Perfluorododecane sulfonate (anion)	343629-43-6	--
187	PFTrDS, its salts	Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	0.010
188		Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
189	10:2 diPAP, its salts	10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.100
190		Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-$C_4H_{11}O_2$)	57677-98-2	--
191	--	Perfluorodecyl iodide (PFDI)	423-62-1	0.100
192	--	Perfluorododecyl iodide (PFDoDI)	307-60-8	0.100
193	--	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.010
194	--	2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.010
195	--	1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	0.100
196	PFHxS, its salts & derivatives	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.010
197		Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	--
198		Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	--
199		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) (PFHxS-Li)	55120-77-9	--
200		Ammonium perfluorohexane-1-sulphonate (PFHxS-NH_4)	68259-08-5	--
201		Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)	1000597-52-3	--
202		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C_4H_9)$_4$)	108427-54-9	--
203		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C_2H_5)$_4$)	108427-55-0	--
204		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC_4H_9)	1187817-57-7	--
205		Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (Calculated in terms of PFHxS) (PFHxS-($NC_{10}H_{14}$)$_3C_5H_4$)	1310480-24-0	--
206		Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC_8H_{10})$_2C_{13}H_{12}$)	1310480-27-3	--
207		Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC_8H_{10})$_2C_{17}H_{12}$)	1310480-28-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
208		Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-$C_{42}H_{70}O_{35}$)	1329995-45-0	--
209		Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)(PFHxS-$C_{48}H_{80}O_{40}$)	1329995-69-8	--
210		Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS)	144116-10-9	--
211		Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$C_{44}H_{37}N_2O_2$)	1462414-59-0	--
212		Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$I(C_6H_5)_2$)	153443-35-7	--
213		Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA)	189274-31-5	--
214		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)(PFHxS-$NH_2(CH_3)_3$)	202189-84-2	--
215		Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$I(C_6H_4)_2(C_4H_9)_2$)	213740-81-9	--
216		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga)	341035-71-0	--
217		Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$S(C_7H_7)_2C_6H_5$)	341548-85-4	--
218		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)(PFHxS-Sc)	350836-93-0	--
219		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)(PFHxS-Nd)	41184-65-0	--
220		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)(PFHxS-Y)	41242-12-0	--
221		Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)(PFHxS-$S_3(C_6H_5)_4(C_6H_4)_2$)	421555-73-9	--
222		Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic(PFHxS-I $(C_6H_4)_2(C_5H_{11})$	421555-74-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
223		Perflurohexane sulphonyl fluoride(PFHxS-F)	423-50-7	--
224		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C_6H_4)$_3$(C_4H_9)$_3$)	425670-70-8	--
225		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--
226		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C_2H_5O)$_2$)	70225-16-0	--
227		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)(PFHxS-N(C_2H_5)$_3$)	72033-41-1	--
228		Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) (PFHxS-I(C_6H_4)$_2$(C_4H_9)$_2$)	866621-50-3	--
229		Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C_6H_5)$_2$$C_7H_7$)	910606-39-2	--
230		Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,67tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C_6H_5)$_2$$C_{10}H_9O_2$)	911027-68-4	--
231		1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)	92011-17-1	--
232		Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S$C_{28}H_{31}O_4$)	928049-42-7	--
233		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
234		Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer)	911027-69-5	--
235		Perfluorohexane sulfonate (anion)	108427-53-8	--
236		Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P (C_4H_9)$_4$))	2310194-12-6	--
237	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
238	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
239	--	N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010
240	--	2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.200
241	--	2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6	0.200
242	--	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1	0.200
243	--	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl- (MeFHxSE)	68555-75-9	0.010
244	EtFHxSAA, its salts	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA)	68957-32-4	0.010
245		Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	--
246		Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	--
247	PFHxA, its salts & derivatives	Perfluorohexane Acid (PFHxA)	307-24-4	0.010
248		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
249		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
250		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
251		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--
252		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
253		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
254		Perfluorohexanoic anhydride	308-13-4	--
255		Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8CI,9CI)	423-47-2	--
256		Perfluorohexanoate (anion)	92612-52-7	--
257		Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	--
258		Perfluorohexanoyl bromide (PFHxA-Br)	1404193-66-3	--
259		Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-$C_6H_{15}N$)	565225-91-4	--
260		1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-$C_{10}H_{14}N_2$)	985-60-4	--
261	--	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.100
262	--	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.400
263	--	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.200

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
264	6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
265		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
266		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--
267		Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH_4)	59587-39-2	--
268		1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1) (6:2 FTS-Ba)	1807944-82-6	--
269		2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3	--
270		2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	--
271		2-(Perfluorohexyl)ethanesulfonyl fluoride (6:2 FTS-F)	--	--
272	--	1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC_2H_5)$_3$)	51851-37-7	0.500
273	--	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.200
274	--	1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi(OCH_3)$_3$)	85857-16-5	
275	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
276	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	0.200
277	--	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide n-oxide	80475-32-7	0.100
278	--	thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.200
279	6:2 monoPAP, its salts	6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	0.100
280		Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH_4NH_4)	1000852-37-8	-
281	--	2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
282	--	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
283	--	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe_2Cl)	102488-47-1	0.200
284	--	1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
285	--	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	0.200
286	6:2 FTPA, its salts	Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	0.100
287		Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP_2OH-Na(PFHXPA-Na))	1189052-95-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
288	--	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- (5:1 FTOH)	423-46-1	0.200
289	--	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.200
290	--	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.200
291	--	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	0.200
292	--	1-(perfluorohexyl)octane (F_6H_8)	133331-77-8	0.200
293	--	1H,1H-Tridecafluoroheptylamine (6:1 $FTNH_2$)	423-49-4	0.200
294	--	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.010
295	6:6 PFPi, its salts	6:6 Perfluorophosphinic acid (6:6 PFPi)	40143-77-9	0.010
296		Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPi-Na)	70609-44-8	--
297		Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7	--
298		Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8	--
299	PFBA, its salts	Perfluorobutane Acid (PFBA)	375-22-4	0.010
300		Ammonium perfluorobutanoate (PFBA-NH_4)	10495-86-0	--
301		Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	--
302		Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	--
303		Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	--
304		Lithium perfluorobutanoate (PFBA-Li)	4146-76-3	--
305		Heptafluorobutanoic acid-piperazine (1:1)	375-04-2	--
306		Perfluorobutanoate (anion)	45048-62-2	--
307		4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1) (PFBA-$C_6H_4ClF_6N_2P$)	--	--
308		Heptafluorobutanoic acid-1-phenylpiperazine (1:1) (PFBA-$C_{10}H_{14}N_2$)	2263-11-8	--
309		Perfluorobutanoic anhydride (PFBAA)	336-59-4	--
310		Heptafluorobutanoic acid calcium salt (PFBA-Ca)	2366-98-5	--
311		Rhodium(II) perfluorobutyrate dimer (PFBA-Rh)	73755-28-9	--
312		Perfluorobutyryl chloride (PFBA-Cl)	375-16-6	--
313		Perfluorobutanoyl fluoride (PFBA-F)	335-42-2	--
314	PFBS, its salts & derivatives	Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.010
315		Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3	--
316		Perfluorobutanesulfonic Acid Hydrate (PFBS-H_2O)	59933-66-3	--
317		lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
318		Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2	--
319		Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S$(CH_3)_2C_6H_5$)	220133-51-7	--
320		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P$(C_4H_9)_4$)	220689-12-3	--
321		N,N,N,-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-N$(C_2H_5)_4$)	25628-08-4	--
322		Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	--
323		Morpholinium perfluorobutanesulfonate (PFBS-NC_4H_9O)	503155-89-3	--
324		Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	--
325		Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH_4)	68259-10-9	--
326		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-$SC_{18}H_{23}O$)	209482-18-8	--
327		1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6	--
328		Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	--
329		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I$(C_6H_4)_2(C_4H_9)_2$)	194999-85-4	--
330		1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH$(C_2H_5O)_2$)	70225-18-2	--
331		Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N$(C_4H_9)_4$))	108427-52-7	--
332		Diphenyliodanium nonafluorobutane-1-sulfonate((PFBS-I$(C_6H_5)_2$))	194999-82-1	--
333		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	241806-75-7	--
334		Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	425670-64-0	--
335		Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	867373-18-0	--
336		Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1015420-87-7	--
337		1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	905972-83-0	--
338		1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1001557-05-6	--

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339		2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	374571-81-0	--
340		Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	857285-80-4	--
341		1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	124472-66-8	--
342		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	--
343		1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	56773-55-8	--
344		Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH_3)$_4$)	25628-17-5	--
345		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	
346		Perfluorobutane sulfonate (anion)	45187-15-3	--
347		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4	--
348		Triethylammonium perfluorobutane sulfonate	182059-38-7	--
349		N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1)	334529-55-4	--
350		1-Hexadecylpyridinium perfluoro-1-butanesulfonate	334529-62-3	--
351		1-Butylpyridinium perfluoro-1-butanesulfonate	334529-64-5	--
352		N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanesulfonate	495417-51-1	--
353		Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1)	722538-68-3	--
354	PFPeA, its salts	Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
355		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	--
356		Potasium perfluoropentanoate(PFPeA-K)	336-23-2	--
357		Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	--
358		Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4	--
359		Ammonium perfluoropentanoate(PFPeA-NH_4)	68259-11-0	--
360		Perfluoropentanoate (anion)	45167-47-3	--
361		Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-$C_8H_{10}N_2S$)	64808-55-5	--
362		Perfluoropentanoic anhydride (PFPeAA)	308-28-1	--
363		Perfluoropentanoyl chloride (PFPeA-Cl)	375-60-0	--
364		Perfluoropentanoyl fluoride (PFPeA-F)	375-62-2	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
365	HPFHpA, its salts	7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	0.010
366		Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
367		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH_4)	376-34-1	--
368		7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	--
369		Potasium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-K)	--	--
370		Lithium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Li)	--	--
371		7H-Perfluoroheptanoyl chloride (HPFHpA-Cl)	41405-35-0	--
372		7H-Perfluoroheptanoyl fluoride (HPFHpA-F)	5927-65-1	--
373	PFHpS, its salts	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
374		Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
375		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
376		Ammonium perfluoroheptanesulfonate (PFHpS-NH_4)	68259-07-4	--
377		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
378		1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9	--
379		Perfluoroheptane sulfonate (anion)	146689-46-5	--
380		Triethylammonium perfluoroheptane sulfonate	72033-40-0	--
381		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	--
382		Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1	--
383		Perfluoroheptanesulfonyl fluoride (PFHpS-F)	335-71-7	--
384		Perfluoroheptanesulfonyl chloride(PFHpS-Cl)	33018-82-5	--
385	PFHpA, its salts	Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
386		Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--
387		Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	--
388		Ammonium perfluoroheptanoate (PFHpA-NH_4)	6130-43-4	--
389		Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	--
390		Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	--
391		Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	--
392		Perflluoroheptanoate (anion)	120885-29-2	--
393		Perfluoroheptanoic anhydride (PFHpAA)	78225-99-7	--
394		Perfluoroheptanoyl chloride (PFHpA-Cl)	52447-22-0	--
395		Perfluoroheptanoyl fluoride (PFHpA-F)	375-84-8	--
396		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
397	HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH_4)	62037-80-3	--
398		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	--
399		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	--
400		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-	75579-39-4	--
401		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-	75579-40-7	--
402		Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	67963-75-1	--
403		Perfluoro(2-propoxypropanoate)	122499-17-6	--
404		2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7	--
405		Triethylaminium perfluoro-2-propoxypropanoate	165951-18-8	--
406		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	--
407		2,3,6-Triiodobenzoic acid (1-methyl-3-piperidinyl)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1) (HFPO-$C_{14}H_{16}I_3NO_2$)	2412106-69-3	--
408	4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
409		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	--
410		4:2 Fluorotelomer sulfonate (4:2 FTS(anion))	414911-30-1	--
411	PFPeS, its salts	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010
412		Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	--
413		Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	--
414		Ammonium perfluoropentanesulfonate (PFPeS-NH_4)	68259-09-6	--
415		Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1	--
416		Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6	--
417		Perfluoropentane sulfonate (anion)	175905-36-9	--
418		Triethylammonium perfluoropentane sulfonate	72033-42-2	--
419		Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1	--
420	--	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.010
421		3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
422	5:3 FTCA, its salts	2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	--
423	PFHxDA, its salts	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
424		Hentriacontafluorohexadecanoate anion (PFHxDA(anion))	1214264-30-8	--
425	PFODA, its salts	Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010
426		Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8	--
427	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.200
428	ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
429		Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH_4)	958445-44-8	--
430		Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	--
431		Potassium 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA-K)	1087271-46-2	--
432		2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA (anion))	2127366-90-7	--
433	PFMPA, its salts	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
434		Perfluoro-3-methoxypropanoic anhydride (PFMPAA)	42566-65-4	--
435	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
436	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010
437	9Cl-PF_3ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF_3ONS)	756426-58-1	0.010
438		Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF_3ONS-K)	73606-19-6	--
439		Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF_3ONS-NH_4)	1383434-28-3	--
440		Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonate) (9Cl-PF_3ONS(anion))	1621485-21-9	--
441	11Cl-PF_3OUdS, its salts	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF_3OUdS)	763051-92-9	0.010
442		Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF_3OUdS-K)	83329-89-9	--
443		2-[(8-Chloro-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluorooctyl)oxy]-1,1,2,2-tetrafluoroethanesulfonate (11Cl-PF_3OUdS (anion))	2196242-82-5	--
444	PFEESA, its salts	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.010
445		Potassium perfluoro(2-ethoxyethane) sulfonate (PFEESA-K)	117205-07-9	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
446		Sodium perfluoro(2-ethoxyethane) sulfonate (PFEESA-Na)	113507-87-2	--
447	3:3 FTCA, its salts	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.010
448		4,4,5,5,6,6,6-Heptafluorohexanoate (3:3 FTCA(anion))	1169706-83-5	--
449		Sodium 3-(perfluoropropyl)propanoate (3:3 FTCA-Na)	1207462-13-2	--
450	PFPeDA, its salts	Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	0.100
451		Nonacosafluoropentadecanoate (PFPeDA(anion))	1214264-29-5	--
452	--	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.200
453	--	2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	0.200
454	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.200
455	--	Perfluorobutane sulfon amides (PFBSA)	30334-69-1	0.100
456	--	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC_3H_8O)	34454-97-2	0.010
457	11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
458		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-K)	307-71-1	--
459		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-NH_4)	5081-02-7	--
460		11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	--
461	PFPrA, its salts	Pentafluoropropionic acid (PFPrA)	422-64-0	0.100
462		Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	--
463		Silver pentafluoropropionate (PFPrA-Ag)	509-09-1	--
464		Potassium pentafluoropropionate (PFPrA-K)	378-76-7	--
465		Ammonium pentafluoropropionate (PFPrA-NH_4)	2730-58-7	--
466		Perfluoropropanoate (PFPrA(anion))	44864-55-3	--
467		Pentafluoropropanoic acid-1-phenylpiperazine (1/1) (PFPrA-$C_{10}H_{14}N_2$)	893-87-8	--
468		Pentafluoropropanoic acid-piperazine (1/1) (PFPrA-$C_4H_{10}N_2$)	1690-94-4	--
469		Imidazole perfluoropropionic acid salt (PFPrA-$C_3H_4N_2$)	200705-90-4	--
470	HFPO-TA, its salts	Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	0.200
471		Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-	67118-57-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
		heptafluoropropoxy)propoxy]-, potassium salt (HFPO-TA-K)		
472		Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	--
473		Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH4)	13043-05-5	--
474		Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F)	2641-34-1	--
475	PFEtS, its salts	Perfluoroethane sulfonic acid (PFEtS)	354-88-1	0.010
476		Pentafluoroethanesulfonate (PFEtS (anion))	108410-37-3	--
477		Potassium pentafluoroethane-1-sulfonate (PFEtS-K)	2837-92-5	--
478	6:2 diPAP, its salts	6:2 Fluorotelomer phosphate diester (6:2 diPAP)	57677-95-9	0.010
479		Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na)	407582-79-0	--
480		Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2 diPAP(Anion))	667465-18-1	--
481	TFSI, its salts	Bis(trifluoromethane)sulfonimide (TFSI)	82113-65-3	0.010
482		1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-11-4	--
483		Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide	405514-94-5	--
484		Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li)	90076-65-6	--
485		1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6	--
486		Zinc(II) Bis(trifluoromethanesulfonyl)imide $((TFSI)_2$-Zn)	168106-25-0	--
487		Manganese(II) Bis(trifluoromethanesulfonyl)imide $((TFSI)_2$-Mn)	207861-55-0	--
488		Nickel bis(trifluoromethylsulfonyl)imide $((TFSI)_2$-Ni)	207861-63-0	--
489		Copper(II) Bis(trifluoromethanesulfonyl)imide $((TFSI)_2$-Cu)	162715-14-2	--
490		(OC-6-11)-Tris(1,1,1-trifluoro-N-((trifluoromethyl)sulfonyl-kappaO) methanesulfonamidato-kappaO)iron $((TFSI)_3$-Fe)	207861-59-4	--
491		Copper(II) trifluoromethanesulfonimide xhydrate $((TFSI)_2$-$CuH_2O)$	1334406-76-6	--
492		Silver Bis(trifluoromethanesulfonyl)imide (TFSI-Ag)	189114-61-2	--
493		Copper bis(trifluoromethylsulfonyl)imide (TFSI-Cu)	291300-50-0	--
494		Barium(II) Bis(trifluoromethanesulfonyl)imide $((TFSI)_2$-Ba)	168106-22-7	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
495		Strontium bis(trifluoromethylsulfonyl)imide	862121-57-1	--
496		1-Methylimidazole Bis(trifluoromethanesulfonyl)imide	353239-08-4	--
497		1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	174899-82-2	--
498		1,2-Dimethyl-3-propylimidazolium bis(trifluoromethylsulfonyl)imide	169051-76-7	--
499		Magnesium bis(trifluoromethylsulfonyl)imide (TFSI-Mg)	133395-16-1	--
500		1-Methyl-3-propylimidazolium Bis(trifluoromethanesulfonyl)imide	216299-72-8	--
501		1-Butyl-1-methylpiperidinium bis(trifluoromethylsulfonyl)imide	623580-02-9	--
502		1-Methyl-3-n-octylimidazolium Bis(trifluoromethanesulfonyl)imide	178631-04-4	--
503		Tris[bis(trifluoromethylsulfonyl)amino] ytterbium $((TFSI)_3$-Yb)	175438-43-4	--
504		Butyltrimethylammonium bis(trifluoromethylsulfonyl)imide	258273-75-5	--
505		Cobalt bis(trifluoromethylsulfonyl)imide $((TFSI)_2$-Co)	207861-61-8	--
506		Potassium Bis(trifluoromethanesulfonyl)imide (TFSI-K)	90076-67-8	--
507		1-Methyl-1-propylpiperidin-1-ium Bis((trifluoromethyl)sulfonyl)amide	608140-12-1	--
508		1-Ethyl-2,3-dimethylimidazolium Bis(trifluoromethanesulfonyl)imide	174899-90-2	--
509		1-Methyl-1-propylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-05-6	--
510		1,1,1-trifluoro-N-trifluoromethanesulfonyl-N-((N-trifluoromethanesulfonyltrifluoromethanesulfonamido)calcio)methanesulfonamide $((TFSI)_2$-Ca)	165324-09-4	--
511		Choline bis(trifluoromethylsulfonyl)imide	827027-25-8	--
512		1-Dodecyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide	404001-48-5	--
513		1-Ethyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide	223436-99-5	--
514		Diethylmethylsulfonium bis(trifluoromethylsulfonyl)imide	792188-85-3	--
515		Bis(trifluoromethylsulfonyl)azanide;mercury(2+) $((TFSI)_2$-Hg)	104715-41-5	--
516	10:2 monoPAP, its salts	10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4	0.100
517		10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
518		3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12.12,12-Henicosafluorododecyl dihydrogen phosphate cyclohexylamine	2514858-66-1	--
519	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide	852527-50-5	0.010
520	TFMS, its salts	Trifluoromethane sulfonic acid (TFMS)	1493-13-6	0.010
521		Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9	--
522		Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	--
523		Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2	--
524		Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	--
525		Trifluoromethanesulfonic anhydride	358-23-6	--
526		Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	--
527		Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2	--
528		Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	--
529		Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2	--
530		Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	--
531		Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4	--
532		Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	--
533		Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	--
534		Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	--
535		Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	--
536		Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	--
537		Tetrabutylammonium trifluoromethanesulfonate	35895-70-6	--
538		Methyltrioctylammonium trifluoromethanesulfonate	121107-18-4	--
539		Imidazole trifluoromethanesulfonate	29727-06-8	--
540		Trifluoroacetyl Trifluoromethanesulfonate	68602-57-3	--
541		Lanthanum(III) trifluoromethanesulfonate(TFMS-La)	52093-26-2	--
542		Indium(III) trifluoromethanesulfonate(TFMS-In)	128008-30-0	--
543		Samarium(III) trifluoromethanesulfonate(TFMS-Sm)	52093-28-4	--
544		Ytterbium(III) trifluoromethanesulfonate(TFMS-Yb)	54761-04-5	--
545		Thulium(III) trifluoromethanesulfonate(TFMS-Tm)	141478-68-4	--
546		Tetraethylammonium trifluoromethanesulfonate	35895-69-3	--
547		1-Fluoro-3,5-dichloropyridinium triflate	107264-06-2	--
548		Triethylamine salt of trifluoromethanesulfonic acid	646-58-2	--
549		Triphenylphosphonium anhydride triflate	72450-51-2	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
550		N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate	120611-30-5	--
551		Diphenylammonium Trifluoromethanesulfonate	164411-06-7	--
552		1-(3-aminoazetidin-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid	2060047-56-3	--
553		Guanidine trifluoromethanesulfonic acid	153756-25-3	--
554		Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)	501693-46-5	--
555		Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)	74468-24-9	--
556		O-Pivaloylhydroxylamine trifluoromethanesulfonate	1293990-73-4	--
557		Trifluoromethanesulfonyl chloride	421-83-0	--
558		(2-Pyridylmethyl)sulfonyl chloride triflate	882564-09-2	--
559		Trifluoromethanesulfonyl bromide	15458-53-4	--
560		Mercury(II) trifluoromethanesulfonate(TFMS-Hg)	49540-00-3	--
561		Dysprosium(III) tris(trifluoromethanesulfonate)(TFMS-Dy)	139177-62-1	--
562		Manganese bis(trifluoromethanesulfonate)(TFMS-Mn)	55120-76-8	--
563		Pentaammine(trifluoromethanesulfonato)osmium(III) triflate	83781-30-0	--
564		Lutetium(III) trifluoromethanesulfonate(TFMS-Lu)	126857-69-0	--
565		Terbium(III) trifluoromethanesulfonate(TFMS-Tb)	148980-31-8	--
566		Neodymium(III) trifluoromethanesulfonate(TFMS-Nd)	34622-08-7	--
567		Ammonium trifluoromethanesulfonate(TFMS-NH_4)	38542-94-8	--
568		Holmium(III) trifluoromethanesulfonate(TFMS-Ho)	139177-63-2	--
569		Trifluoromethanesulfonate	37181-39-8	--
570		Praseodymium(III) trifluoromethanesulfonate(TFMS-Pr)	52093-27-3	--
571		Bismuth(III) trifluoromethanesulfonate(TFMS-Bi)	88189-03-1	--
572		Europium(III) trifluoromethanesulfonate(TFMS-Eu)	52093-25-1	--
573		Erbium(III) trifluoromethanesulfonate(TFMS-Er)	139177-64-3	--
574		Gallium(III) trifluoromethanesulfonate(TFMS-Ga)	74974-60-0	--
575		N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate	380230-73-9	--
576		Methanesulfonic acid, trifluoro-, calcium salt(TFMS-Ga)	55120-75-7	--
577		Thallium(1+) trifluoromethanesulfonate(TFMS-Tl)	73491-36-8	--
578		Hafnium(IV) Trifluoromethanesulfonate(TFMS-Hf)	161337-67-3	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
579	PFPrS, its salts	Perfluoropropate sulfonic acid (PFPrS)	423-41-6	0.010
580		Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9	--
581	--	1-pefluoroheptyl ethanol (7:2 secondary) (7:2sFTOH)	24015-83-6	0.200
582	--	4:2 Fluorotelomer iodide (4:2 FTI)	2043-55-2	0.200
583	PFHpSi, its salts	Perfluoroheptane-1-sulfinic acid (PFHpSi)	769067-51-8	0.010
584		1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na)	68555-66-8	--
585	PFOPA, its salts	Perfluorooctyl phosphoic acid (PFOPA)	40143-78-0	0.010
586		(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (1/1)	1263361-03-0	--
587	--	1H,1H-Perfluorooctylamine (7:1 $FTNH_2$)	307-29-9	0.200
588	--	Perfluoroheptanamide ($PFHpA-NH_2$)	2358-22-7	0.100
589	--	Perfluorobutyramide ($PFBA-NH_2$)	662-50-0	0.200
590	--	1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	0.200
591	--	N-methylperfluoro-1-butanesulfonamide (MeFBSA)	68298-12-4	0.010
592	--	N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE)	34455-03-3	0.010
593	TFA, its salts	Trifluoroacetic acid (TFA)	76-05-1	1.000
594		Sodium trifluoroacetate (TFA-Na)	2923-18-4	--
595		Thallium(III) trifluoroacetate (TFA-Tl)	23586-53-0	--
596		Lithium Trifluoroacetate (TFA-Li)	2923-17-3	--
597		Silver trifluoroacetate (TFA-Ag)	2966-50-9	--
598		Cesium Trifluoroacetate (TFA-Cs)	21907-50-6	--
599		Potassium trifluoroacetate (TFA-K)	2923-16-2	--
600		Ammoniumtrifluoroacetate ($TFA-NH_4$)	3336-58-1	--
601		Mercury(II) trifluoroacetate (TFA-Hg)	13257-51-7	--
602		Palladium(II) trifluoroacetate (TFA-Pd)	42196-31-6	--
603		Trifluoroacetate / Trifluoroacetic acid anion(TFA anion)	14477-72-6	--
604		Dimethyl[(trifluoroacetyl)oxy]sulfanium trifluoroacetate	57738-66-6	--
605		Aluminium tris(trifluoroacetate)(TFA-Al)	36554-89-9	--
606		Barium bis(trifluoroacetate)(TFA-Ba)	60884-92-6	--
607		Erbium tris(trifluoroacetate)(TFA-Er)	70236-99-6	--
608		Indium trifluoroacetate(TFA-In)	36554-90-2	--
609		Lanthanum tris(trifluoroacetate)(TFA-La)	70236-92-9	--
610		Nickel(2+) trifluoroacetate(TFA-Ni)	16083-14-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
611		Lead(II) trifluoroacetate(TFA-Pb)	4146-73-0	--
612		Acetic acid, trifluoro-, rhodium(2+) salt(TFA-Rh)	72654-51-4	--
613		Thulium tris(trifluoroacetate)(TFA-Tm)	70237-00-2	--
614		Ytterbium(3+) tris(trifluoroacetate)(TFA-Yb)	87863-62-5	--
615		Zinc bis(trifluoroacetate)(TFA-Zn)	21907-47-1	--
616		Ruthenium(II) 2,2,2-trifluoroacetate(TFA-Ru)	61612-84-8	--
617		Magnesium 2,2,2-trifluoroacetate(TFA-Mg)	123333-72-2	--
618		Copper(2+) trifluoroacetate(TFA-Cu)	123333-88-0	--
619	BETI, its salts	Bis(pentafluoroethylsulfonyl)imide	152894-10-5	0.020
620		Lithium Bis(pentafluoroethanesulfonyl)imide	132843-44-8	--
621		Bis(perfluoroethylsulfonyl)imide anion	129318-46-3	--
622		Sodium bis((perfluoroethyl)sulfonyl)amide	152894-04-7	--
623		Potassium bis((perfluoroethyl)sulfonyl)amide	221203-22-1	--
624		1-Ethyl-3-methylimidazolium bis(perfluoroethylsulfonyl)imide	216299-76-2	--
625	--	Perfluoro-2-ethoxypropanoic acid(PEPA)	267239-61-2	0.010
626	PFDPA, its salts	perfluorodecylphosphonic acid (PFDPA)	52299-26-0	0.010
627		Perfluorodecylphosphonic Acid 4-Methylbenzamine	--	--
628		Perfluorodecylphosphonic Acid Di-4-toluidine Salt	--	--
629	PFHxPA, its salts	Perfluorohexyl phosphonic acid	40143-76-8	0.010
630		Perfluorohexylphosphonic Acid 4-Methylbenzamine	1263361-02-9	--

(2) For textile and leather, list of PFAS hydrolysed ^^ when extracted by methanol/sodium hydroxide solution in below table:

Substances Name	CAS No.
N-EtFOSE, its possible source	
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2
2-(N-ethylperfluorooctanesulfamido)ethyl acrylate (EtFOSAC) ^^	423-82-5
PFOA, its possible source	
Perfluorooctanoic Acid (PFOA)	335-67-1
Ethyl perfluorooctanoate (Et-PFOA) ^^	3108-24-5
Methyl perfluorooctanoate (Me-PFOA) ^^	376-27-2
8:2 FTOH, its possible source	
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^^	1996-88-9
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^^	27905-45-9

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Substances Name	CAS No.
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) ^^	37858-04-1
10:2 FTOH, its possible source	
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) ^^	2144-54-9
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) ^^	17741-60-5
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc) ^^	37858-05-2
6:2 FTOH, its possible source	
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) ^^	2144-53-8
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) ^^	17527-29-6
MeFHxSE, its possible source	
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE)	68555-75-9
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester ^^	67584-61-6
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA) ^^	67584-57-0
Et-FHxSE, its possible source	
N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE)	34455-03-3
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester^^	67906-70-1
PFHpA, its possible source	
Perfluoroheptane Acid (PFHpA)	375-85-9
Perfluoroheptanamide (PFHpA-NH_2) ^^	2358-22-7
PFBA, its possible source	
Perfluorobutane Acid (PFBA)	375-22-4
Perfluorobutyramide (PFBA-NH_2) ^^	662-50-0
4:2 FTOH, its possible source	
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2
1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA) ^^	1799-84-4
1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA) ^^	52591-27-2

(3) Compound is hydrolysed and releases related PFAS substances when extracted by methanol/sodium hydroxide solution. Since the listed PFAS will be degraded to unknown compounds and/or can not be analysed by extraction with methanol/NaOH solution, only extractable content can be detected and

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quantified with solvent extraction methods .The results received by solvent extraction with subsequent GC-MS or GC-MS/MS or HPLC-MS/MS analysis reflect only extractable PFAS.

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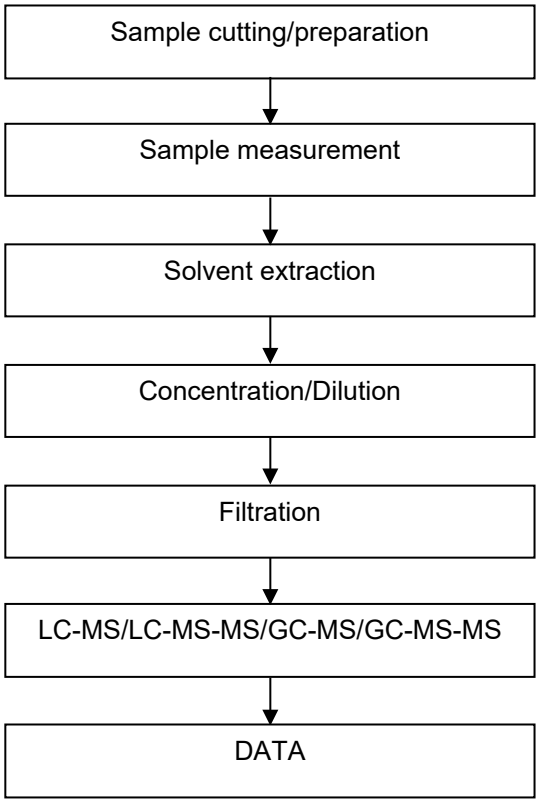
ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



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Sample photos:

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