Client Name: SHENZHEN RONGDA PHOTOSENSITIVE SCIENCE & TECHNOLOGY CO., LTD

Client Address: FLOOR 1-3 ,XINTIAN ROAD 71-5,FUHAI STREET,BAO'AN DISTRICT,SHENZHEN CITY

Sample Name: Liquid photosensitive solder resist ink

Model No.: H-9100/H-9100B LDIGHF025

Client Ref. Information: H-9100/H-9100B series

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

SGS Job No.: SZP26-023065

Sample Receiving Date: May 08, 2026

Testing Period: May 08, 2026 ~ May 13, 2026

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:

671 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	Pass

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

Fay

Fay Yuan
Approved Signatory

Scan to see the report

F6E90DA8

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Test Sample:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX26-0028154-0001.C001	Green paste

671 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 PFAS list)

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-$NH(C_2H_5)_3$)	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		Perfluorooctanoyl Bromide (PFOA-Br)	222037-87-8	--
72	8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010
73		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)
74		Ammonium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-NH_4)	149724-40-3	--
75		Sodium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-Na)	27619-96-1	--
76		2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7	--
77		2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)	27619-90-5	--
78	--	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.200
79	--	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.200
80	--	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.100
81	--	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.100
82	--	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.200
83	8:2 FTCA, its salts	2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5	0.010
84		Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C_4H_9)$_4$)	882489-14-7	--
85	--	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.100
86	--	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	0.100
87	--	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC_2H_5)$_3$)	101947-16-4	0.100
88	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
89		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	--
90		Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	--
91		Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH_4)	93776-20-6	--
92		8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1	--
93	8:3 FTCA, its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	0.010
94		Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1	--
95		2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8	--
96	--	1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	0.200
97	--	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.010
98	--	1H,1H,2H,2H-Perfluorodecyltrichlorosilane	78560-44-8	0.100
99	--	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	83048-65-1	
100	--	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.010
101	--	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)
102	8:8 PFPi, its salts	8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1	0.010
103		Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPi-Na)	500776-69-2	--
104		Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5	--
105		Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6	--
106	--	1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	0.100
107	8:2 monoPAP, its salts	8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	0.100
108		8:2 Fluorotelomer diammonium phosphate	93857-44-4	-
109		Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	-
110		Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	-
111		3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	-
112		Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	-
113		Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	-
114		Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	-
115	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
116		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
117		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH_4)	4149-60-4	--
118		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
119		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
120		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
121		Methanaminium perfluorononanoate (PFNA-$NH_3(CH_3)$)	77032-23-6	--
122		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	--
123		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	--
124		Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9Cl) (PFNA-$NH(C_2H_5)_3$)	327176-80-7	--
125		Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9Cl) (PFNA-$NH_2(C_5H_{10})$)	95682-66-9	--
126		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)
127		Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-$NH_3(C_6H_{11})$)	328531-06-2	--
128		Perfluorononanoate (anion)	72007-68-2	--
129		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-$C_{11}H_{12}N_4O_3S$)	298703-33-0	--
130		Perfluorononanoic anhydride (PFNAA)	228407-54-3	--
131		Perfluorononanoyl chloride (PFNA-Cl)	52447-23-1	--
132		Perfluorononanoyl fluoride (PFNA-F)	558-95-2	--
133		Heptadecafluorononanoyl Bromide (PFNA-Br)	261503-42-8	--
134	PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2	0.010
135		Sodium perfluorodecanoate (PFDA-Na)	3830-45-3	--
136		Perfluorodecanoate ammonium salt (PFDA-NH_4)	3108-42-7	--
137		Potassium perfluorodecanoate (PFDA-K)	51604-85-4	--
138		Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	--
139		Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	--
140		Perfluorodecanoate (anion)	73829-36-4	--
141		Perfluorodecanoic anhydride (PFDAA)	942199-24-8	--
142		Nonadecafluorodecanoyl chloride (PFDA-Cl)	307-38-0	--
143		Nonadecafluorodecanoyl Fluoride (PFDA-F)	--	--
144	PFUnDA, its salts	Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.010
145		Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	--
146		Ammonium perfluoroundecanoate (PFUnDA-NH_4)	4234-23-5	--
147		Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	--
148		Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	--
149		Perfluoroundecanoate (anion)	196859-54-8	--
150	PFDoDA, its salts	Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.010
151		Ammonium tricosafluorododecanoate (PFDoDA-NH_4)	3793-74-6	--
152		Perfluorododecanoate (anion)	171978-95-3	--
153	PFTrDA, its salts	Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.010
154		Ammonium perfluorotridecanoate (PFTrDA-NH_4)	4288-72-6	--
155		Sodium perfluorotridecanoate (PFTrDA-Na)	60872-01-7	--
156		Perfluorotridecanoate (anion)	862374-87-6	--
157	PFTDA, its salts	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
158		Perfluorotetradecanoate (anion)	365971-87-5	--
159	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
160	PFDS, its salts	Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010
161		Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	--
162		Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	--
163		Ammonium perfluorodecanesulfonate (PFDS-NH_4)	67906-42-7	--
164		Perfluorodecane sulfonate (anion)	126105-34-8	--
165		Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	--
166		Perfluorodecanesulphonyl fluoride (PFDS-F)	307-51-7	--
167		Perfluorodecanesulphonyl chloride (PFDS-Cl)	32779-61-6	--
168	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
169	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.100
170	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.100
171	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
172	10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.100
173		1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3	--
174		2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)	27619-91-6	--
175	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	0.100
176	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.100
177	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
178		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
179		ammonium nonadecafluorononanesulphonate (PFNS-NH_4)	17202-41-4	--
180		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--
181		Perfluorononane sulfonate (anion)	474511-07-4	--
182		Perfluorononanesulfonyl fluoride (PFNS-F)	68259-06-3	--
183	PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.010
184		Perfluoroundecanesulfonate (anion)	441296-91-9	--
185	PFDoDS, its salts	Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	0.010
186		Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1	--
187		Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3	--
188		Perfluorododecane sulfonate (anion)	343629-43-6	--
189		Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
190	PFTrDS, its salts	Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1	--
191	10:2 diPAP, its salts	10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.100
192		Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-$C_4H_{11}O_2$)	57677-98-2	--
193	--	Perfluorodecyl iodide (PFDI)	423-62-1	0.100
194	--	Perfluorododecyl iodide (PFDoDI)	307-60-8	0.100
195	--	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.010
196	--	2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.010
197	--	1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	0.100
198	PFHxS, its salts & derivatives	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.010
199		Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	--
200		Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	--
201		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	--
202		Ammonium perfluorohexane-1-sulphonate (PFHxS-NH_4)	68259-08-5	--
203		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	--
204		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C_4H_9)$_4$)	108427-54-9	--
205		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C_2H_5)$_4$)	108427-55-0	--
206		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	--
207		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	--
208		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	--
209		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-	1310480-28-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
		tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$(NC_8H_{10})_2C_{17}H_{12}$)		
210		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	--
211		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	--
212		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	--
213		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	--
214		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	--
215		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	--
216		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	--
217		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	--
218		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)(PFHxS-Ga)	341035-71-0	--
219		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	--
220		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	--
221		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	--
222		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	--
223		Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-	421555-73-9	--

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		hexanesulfonic acid (1:2)(PFHxS-$S_3(C_6H_5)_4(C_6H_4)_2$)		
224		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	--
225		Perflurohexane sulphonyl fluoride(PFHxS-F)	423-50-7	--
226		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	--
227		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--
228		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-$NH(C_2H_5O)_2$)	70225-16-0	--
229		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	--
230		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	--
231		Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$S(C_6H_5)_2C_7H_7$)	910606-39-2	--
232		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-$S(C_6H_5)_2C_{10}H_9O_2$)	911027-68-4	--
233		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	--
234		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-$SC_{28}H_{31}O_4$)	928049-42-7	--
235		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
236		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	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
237		Perfluorohexane sulfonate (anion)	108427-53-8	--
238		Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P $(C_4H_9)_4$))	2310194-12-6	--
239	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010
240	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
241	--	N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010
242	--	2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.200
243	--	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
244	--	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
245	--	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
246	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
247		Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	--
248		Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	--
249	PFHxA, its salts & derivatives	Perfluorohexane Acid (PFHxA)	307-24-4	0.010
250		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
251		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
252		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
253		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--
254		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
255		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
256		Perfluorohexanoic anhydride	308-13-4	--
257		Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8CI,9CI)	423-47-2	--
258		Perfluorohexanoate (anion)	92612-52-7	--
259		Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	--
260		Perfluorohexanoyl bromide (PFHxA-Br)	1404193-66-3	--
261		Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-$C_6H_{15}N$)	565225-91-4	--
262		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	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
263	--	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.100
264	--	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.400
265	--	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.200
266	6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
267		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
268		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--
269		Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH_4)	59587-39-2	--
270		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	--
271		2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3	--
272		2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	--
273		2-(Perfluorohexyl)ethanesulfonyl fluoride (6:2 FTS-F)	--	--
274	--	1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC_2H_5)$_3$)	51851-37-7	0.500
275	--	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.200
276	--	1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi(OCH_3)$_3$)	85857-16-5	
277	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
278	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	0.200
279	--	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
280	--	thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.200
281	6:2 monoPAP, its salts	6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	0.100
282		Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH_4NH_4)	1000852-37-8	-
283	--	2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
284	--	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
285	--	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe_2Cl)	102488-47-1	0.200
286	--	1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
287	--	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	0.200

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
288	6:2 FTPA, its salts	Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	0.100
289		Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP_2OH-Na(PFHXPA-Na))	1189052-95-6	--
290	--	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- (5:1 FTOH)	423-46-1	0.200
291	--	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.200
292	--	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.200
293	--	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	0.200
294	--	1-(perfluorohexyl)octane (F_6H_8)	133331-77-8	0.200
295	--	1H,1H-Tridecafluoroheptylamine (6:1 $FTNH_2$)	423-49-4	0.200
296	--	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.010
297	6:6 PFPi, its salts	6:6 Perfluorophosphinic acid (6:6 PFPi)	40143-77-9	0.010
298		Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPi-Na)	70609-44-8	--
299		Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7	--
300		Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8	--
301	PFBA, its salts	Perfluorobutane Acid (PFBA)	375-22-4	0.010
302		Ammonium perfluorobutanoate (PFBA-NH_4)	10495-86-0	--
303		Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	--
304		Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	--
305		Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	--
306		Lithium perfluorobutanoate (PFBA-Li)	4146-76-3	--
307		Heptafluorobutanoic acid-piperazine (1:1)	375-04-2	--
308		Perfluorobutanoate (anion)	45048-62-2	--
309		4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1) (PFBA-$C_6H_4ClF_6N_2P$)	--	--
310		Heptafluorobutanoic acid-1-phenylpiperazine (1:1) (PFBA-$C_{10}H_{14}N_2$)	2263-11-8	--
311		Perfluorobutanoic anhydride (PFBAA)	336-59-4	--
312		Heptafluorobutanoic acid calcium salt (PFBA-Ca)	2366-98-5	--
313		Rhodium(II) perfluorobutyrate dimer (PFBA-Rh)	73755-28-9	--
314		Perfluorobutyryl chloride (PFBA-Cl)	375-16-6	--
315		Perfluorobutanoyl fluoride (PFBA-F)	335-42-2	--
316		Heptafluorobutanoyl Bromide (PFBA-Br)	375-13-3	--
317		4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1)	--	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
318		N5-(5-Hydroxy-4,6-dimethylpyrimidin-2-yl)-L-ornithine- heptafluorobutanoic acid (1/2)	936233-19-1	--
319	PFBS, its salts & derivatives	Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.010
320		Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3	--
321		Perfluorobutanesulfonic Acid Hydrate (PFBS-H_2O)	59933-66-3	--
322		lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	--
323		Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2	--
324		Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S$(CH_3)_2C_6H_5$)	220133-51-7	--
325		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P$(C_4H_9)_4$)	220689-12-3	--
326		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	--
327		Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	--
328		Morpholinium perfluorobutanesulfonate (PFBS-NC_4H_9O)	503155-89-3	--
329		Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	--
330		Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH_4)	68259-10-9	--
331		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-$SC_{18}H_{23}O$)	209482-18-8	--
332		1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6	--
333		Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	--
334		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I$(C_6H_4)_2(C_4H_9)_2$)	194999-85-4	--
335		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	--
336		Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N$(C_4H_9)_4$))	108427-52-7	--
337		Diphenyliodanium nonafluorobutane-1-sulfonate((PFBS-I$(C_6H_5)_2$))	194999-82-1	--
338		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	241806-75-7	--
339		Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	425670-64-0	--
340		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	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
341		Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1015420-87-7	--
342		1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	905972-83-0	--
343		1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1001557-05-6	--
344		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	--
345		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	--
346		1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	124472-66-8	--
347		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	--
348		1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	56773-55-8	--
349		Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N$(CH_3)_4$)	25628-17-5	--
350		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	
351		Perfluorobutane sulfonate (anion)	45187-15-3	--
352		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4	--
353		Triethylammonium perfluorobutane sulfonate	182059-38-7	--
354		N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1)	334529-55-4	--
355		1-Hexadecylpyridinium perfluoro-1-butanesulfonate	334529-62-3	--
356		1-Butylpyridinium perfluoro-1-butanesulfonate	334529-64-5	--
357		N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanesulfonate	495417-51-1	--
358		Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1)	722538-68-3	--
359		N-Ethyl-N-methyl-N-propylammonium perfluorobutanesulfonate	1186599-90-5	--
360		[4-(2-Methylpropyl)phenyl]-diphenylsulfanium;1,1,2,2,3,3,4, 4,4-nonafluorobutane-1-sulfonate	1375211-36-1	--
361		Diphenyl 4-tertbutylphenylsulfonium nonafluorobutanesulfonate	258872-05-8	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
362		Diphenyl(4-methylphenyl)sulfonium nonafluorobutanesulfonate	284474-28-8	--
363		Trimethylsilyl nonafluorobutanesulfonate	68734-62-3	--
364	PFPeA, its salts	Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
365		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	--
366		Potasium perfluoropentanoate(PFPeA-K)	336-23-2	--
367		Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	--
368		Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4	--
369		Ammonium perfluoropentanoate(PFPeA-NH_4)	68259-11-0	--
370		Perfluoropentanoate (anion)	45167-47-3	--
371		Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-$C_8H_{10}N_2S$)	64808-55-5	--
372		Perfluoropentanoic anhydride (PFPeAA)	308-28-1	--
373		Perfluoropentanoyl chloride (PFPeA-Cl)	375-60-0	--
374		Perfluoropentanoyl fluoride (PFPeA-F)	375-62-2	--
375	HPFHpA, its salts	7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	0.010
376		Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
377		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH_4)	376-34-1	--
378		7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	--
379		Potasium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-K)	--	--
380		Lithium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Li)	--	--
381		7H-Perfluoroheptanoyl chloride (HPFHpA-Cl)	41405-35-0	--
382		7H-Perfluoroheptanoyl fluoride (HPFHpA-F)	5927-65-1	--
383		Perfluoroheptanoyl Bromide (HPFHpA-Br)	159623-34-4	--
384	PFHpS, its salts	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
385		Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
386		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
387		Ammonium perfluoroheptanesulfonate (PFHpS-NH_4)	68259-07-4	--
388		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
389		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	--
390		Perfluoroheptane sulfonate (anion)	146689-46-5	--
391		Triethylammonium perfluoroheptane sulfonate	72033-40-0	--
392		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
393		Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1	--
394		Perfluoroheptanesulfonyl fluoride (PFHpS-F)	335-71-7	--
395		Perfluoroheptanesulfonyl chloride(PFHpS-Cl)	33018-82-5	--
396	PFHpA, its salts	Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
397		Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--
398		Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	--
399		Ammonium perfluoroheptanoate (PFHpA-NH_4)	6130-43-4	--
400		Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	--
401		Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	--
402		Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	--
403		Perfllluoroheptanoate (anion)	120885-29-2	--
404		Perfluoroheptanoic anhydride (PFHpAA)	78225-99-7	--
405		Perfluoroheptanoyl chloride (PFHpA-Cl)	52447-22-0	--
406		Perfluoroheptanoyl fluoride (PFHpA-F)	375-84-8	--
407	HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6	0.010
408		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH_4)	62037-80-3	--
409		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	--
410		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	--
411		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-	75579-39-4	--
412		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-	75579-40-7	--
413		Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	67963-75-1	--
414		Perfluoro(2-propoxypropanoate)	122499-17-6	--
415		2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7	--
416		Triethylaminium perfluoro-2-propoxypropanoate	165951-18-8	--
417		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	--
418		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	--
419	4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
420		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
421		4:2 Fluorotelomer sulfonate (4:2 FTS(anion))	414911-30-1	--
422	PFPeS, its salts	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010
423		Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	--
424		Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	--
425		Ammonium perfluoropentanesulfonate (PFPeS-NH_4)	68259-09-6	--
426		Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1	--
427		Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6	--
428		Perfluoropentane sulfonate (anion)	175905-36-9	--
429		Triethylammonium perfluoropentane sulfonate	72033-42-2	--
430		Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1	--
431	--	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.010
432	5:3 FTCA, its salts	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.010
433		2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	--
434	PFHxDA, its salts	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
435		Hentriacontafluorohexadecanoate anion (PFHxDA(anion))	1214264-30-8	--
436	PFODA, its salts	Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010
437		Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8	--
438	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.200
439	ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
440		Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH_4)	958445-44-8	--
441		Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	--
442		Potassium 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA-K)	1087271-46-2	--
443		2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA (anion))	2127366-90-7	--
444	PFMPA, its salts	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
445		Perfluoro-3-methoxypropanoic anhydride (PFMPAA)	42566-65-4	--
446	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
447	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
448	9Cl-PF_3ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF_3ONS)	756426-58-1	0.010
449		Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF_3ONS-K)	73606-19-6	--
450		Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF_3ONS-NH_4)	1383434-28-3	--
451		Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonate) (9Cl-PF_3ONS(anion))	1621485-21-9	--
452	11Cl-PF_3OUdS, its salts	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF_3OUdS)	763051-92-9	0.010
453		Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF_3OUdS-K)	83329-89-9	--
454		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	--
455	PFEESA, its salts	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.010
456		Potassium perfluoro(2-ethoxyethane) sulfonate (PFEESA-K)	117205-07-9	--
457		Sodium perfluoro(2-ethoxyethane) sulfonate (PFEESA-Na)	113507-87-2	--
458	3:3 FTCA, its salts	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.010
459		4,4,5,5,6,6,6-Heptafluorohexanoate (3:3 FTCA(anion))	1169706-83-5	--
460		Sodium 3-(perfluoropropyl)propanoate (3:3 FTCA-Na)	1207462-13-2	--
461	PFPeDA, its salts	Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	0.100
462		Nonacosafluoropentadecanoate (PFPeDA(anion))	1214264-29-5	--
463	--	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.200
464	--	2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	0.200
465	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.200
466	--	Perfluorobutane sulfon amides (PFBSA)	30334-69-1	0.100
467	--	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
468	11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
469		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	--
470		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	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
471		11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	--
472	PFPrA, its salts	Pentafluoropropionic acid (PFPrA)	422-64-0	0.100
473		Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	--
474		Silver pentafluoropropionate (PFPrA-Ag)	509-09-1	--
475		Potassium pentafluoropropionate (PFPrA-K)	378-76-7	--
476		Ammonium pentafluoropropionate (PFPrA-NH_4)	2730-58-7	--
477		Perfluoropropanoate (PFPrA(anion))	44864-55-3	--
478		Pentafluoropropanoic acid-1-phenylpiperazine (1/1) (PFPrA-$C_{10}H_{14}N_2$)	893-87-8	--
479		Pentafluoropropanoic acid-piperazine (1/1) (PFPrA-$C_4H_{10}N_2$)	1690-94-4	--
480		Imidazole perfluoropropionic acid salt (PFPrA-$C_3H_4N_2$)	200705-90-4	--
481	HFPO-TA, its salts	Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	0.200
482		Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]-, potassium salt (HFPO-TA-K)	67118-57-4	--
483		Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	--
484		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	--
485		Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F)	2641-34-1	--
486	PFEtS, its salts	Perfluoroethane sulfonic acid (PFEtS)	354-88-1	0.010
487		Pentafluoroethanesulfonate (PFEtS (anion))	108410-37-3	--
488		Potassium pentafluoroethane-1-sulfonate (PFEtS-K)	2837-92-5	--
489	6:2 diPAP, its salts	6:2 Fluorotelomer phosphate diester (6:2 diPAP)	57677-95-9	0.010
490		Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na)	407582-79-0	--
491		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	--
492	TFSI, its salts	Bis(trifluoromethane)sulfonimide (TFSI)	82113-65-3	0.010
493		1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-11-4	--
494		Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide	405514-94-5	--
495		Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li)	90076-65-6	--
496		1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
497		Zinc(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Zn)	168106-25-0	--
498		Manganese(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Mn)	207861-55-0	--
499		Nickel bis(trifluoromethylsulfonyl)imide ($(TFSI)_2$-Ni)	207861-63-0	--
500		Copper(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Cu)	162715-14-2	--
501		(OC-6-11)-Tris(1,1,1-trifluoro-N-((trifluoromethyl)sulfonyl-kappaO) methanesulfonamidato-kappaO)iron ($(TFSI)_3$-Fe)	207861-59-4	--
502		Copper(II) trifluoromethanesulfonimide xhydrate ($(TFSI)_2$-CuH_2O)	1334406-76-6	--
503		Silver Bis(trifluoromethanesulfonyl)imide (TFSI-Ag)	189114-61-2	--
504		Copper bis(trifluoromethylsulfonyl)imide (TFSI-Cu)	291300-50-0	--
505		Barium(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Ba)	168106-22-7	--
506		Strontium bis(trifluoromethylsulfonyl)imide	862121-57-1	--
507		1-Methylimidazole Bis(trifluoromethanesulfonyl)imide	353239-08-4	--
508		1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	174899-82-2	--
509		1,2-Dimethyl-3-propylimidazolium bis(trifluoromethylsulfonyl)imide	169051-76-7	--
510		Magnesium bis(trifluoromethylsulfonyl)imide (TFSI-Mg)	133395-16-1	--
511		1-Methyl-3-propylimidazolium Bis(trifluoromethanesulfonyl)imide	216299-72-8	--
512		1-Butyl-1-methylpiperidinium bis(trifluoromethylsulfonyl)imide	623580-02-9	--
513		1-Methyl-3-n-octylimidazolium Bis(trifluoromethanesulfonyl)imide	178631-04-4	--
514		Tris[bis(trifluoromethylsulfonyl)amino] ytterbium ($(TFSI)_3$-Yb)	175438-43-4	--
515		Butyltrimethylammonium bis(trifluoromethylsulfonyl)imide	258273-75-5	--
516		Cobalt bis(trifluoromethylsulfonyl)imide ($(TFSI)_2$-Co)	207861-61-8	--
517		Potassium Bis(trifluoromethanesulfonyl)imide (TFSI-K)	90076-67-8	--
518		1-Methyl-1-propylpiperidin-1-ium Bis((trifluoromethyl)sulfonyl)amide	608140-12-1	--
519		1-Ethyl-2,3-dimethylimidazolium Bis(trifluoromethanesulfonyl)imide	174899-90-2	--
520		1-Methyl-1-propylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-05-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
521		1,1,1-trifluoro-N-trifluoromethanesulfonyl-N-((N-trifluoromethanesulfonyltrifluoromethanesulfonamido)calcio)methanesulfonamide ($(TFSI)_2$-Ca)	165324-09-4	--
522		Choline bis(trifluoromethylsulfonyl)imide	827027-25-8	--
523		1-Dodecyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide	404001-48-5	--
524		1-Ethyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide	223436-99-5	--
525		Diethylmethylsulfonium bis(trifluoromethylsulfonyl)imide	792188-85-3	--
526		Bis(trifluoromethylsulfonyl)azanide;mercury(2+) ($(TFSI)_2$-Hg)	104715-41-5	--
527		Cerium(III) Bis(trifluoromethanesulfonyl)imide (TFSI-Ce)	1046099-39-1	--
528		Cadmium bis{bis[(trifluoromethyl)sulfonyl]azanide} (TFSI-Cd)	1263295-73-3	--
529		Bis(trifluoromethanesulfonyl)imide Lanthanum(III) Salt (TFSI-La)	168106-26-1	--
530		Scandium(III) bis(trifluoromethylsulfonyl)imide (TFSI-Sc)	176726-07-1	--
531		Yttrium(III) bis(trifluoromethanesulfonyl)imide (TFSI-Y)	189114-86-1	--
532		Vanadium tris(bis(trifluoromethanesulfon)imide) (TFSI-V)	207861-54-9	--
533		Iron(II) bis(trifluoromethanesulfonyl)imide (TFSI-Fe)	207861-57-2	--
534		Tin(II) bis(trifluoromethylsulfonyl)imide (TFSI-Sn)	460096-08-6	--
535		Cesium bis(trifluoromethanesulfonyl)imide (TFSI-Cs)	91742-16-4	--
536		Sodium bis(trifluoromethanesulfonyl)imide (TFSI-Na)	91742-21-1	--
537	10:2 monoPAP, its salts	10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4	0.100
538		10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5	--
539		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	--
540	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide	852527-50-5	0.010
541	TFMS, its salts	Trifluoromethane sulfonic acid (TFMS)	1493-13-6	0.010
542		Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9	--
543		Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	--
544		Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
545		Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	--
546		Trifluoromethanesulfonic anhydride	358-23-6	--
547		Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	--
548		Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2	--
549		Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	--
550		Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2	--
551		Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	--
552		Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4	--
553		Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	--
554		Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	--
555		Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	--
556		Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	--
557		Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	--
558		Tetrabutylammonium trifluoromethanesulfonate	35895-70-6	--
559		Methyltrioctylammonium trifluoromethanesulfonate	121107-18-4	--
560		Imidazole trifluoromethanesulfonate	29727-06-8	--
561		Trifluoroacetyl Trifluoromethanesulfonate	68602-57-3	--
562		Lanthanum(III) trifluoromethanesulfonate(TFMS-La)	52093-26-2	--
563		Indium(III) trifluoromethanesulfonate(TFMS-In)	128008-30-0	--
564		Samarium(III) trifluoromethanesulfonate(TFMS-Sm)	52093-28-4	--
565		Ytterbium(III) trifluoromethanesulfonate(TFMS-Yb)	54761-04-5	--
566		Thulium(III) trifluoromethanesulfonate(TFMS-Tm)	141478-68-4	--
567		Tetraethylammonium trifluoromethanesulfonate	35895-69-3	--
568		1-Fluoro-3,5-dichloropyridinium triflate	107264-06-2	--
569		Triethylamine salt of trifluoromethanesulfonic acid	646-58-2	--
570		Triphenylphosphonium anhydride triflate	72450-51-2	--
571		N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate	120611-30-5	--
572		Diphenylammonium Trifluoromethanesulfonate	164411-06-7	--
573		1-(3-aminoazetidin-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid	2060047-56-3	--
574		Guanidine trifluoromethanesulfonic acid	153756-25-3	--
575		Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)	501693-46-5	--
576		Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)	74468-24-9	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
577		O-Pivaloylhydroxylamine trifluoromethanesulfonate	1293990-73-4	--
578		Trifluoromethanesulfonyl chloride	421-83-0	--
579		(2-Pyridylmethyl)sulfonyl chloride triflate	882564-09-2	--
580		Trifluoromethanesulfonyl bromide	15458-53-4	--
581		Mercury(II) trifluoromethanesulfonate(TFMS-Hg)	49540-00-3	--
582		Dysprosium(III) tris(trifluoromethanesulfonate)(TFMS-Dy)	139177-62-1	--
583		Manganese bis(trifluoromethanesulfonate)(TFMS-Mn)	55120-76-8	--
584		Pentaammine(trifluoromethanesulfonato)osmium(III) triflate	83781-30-0	--
585		Lutetium(III) trifluoromethanesulfonate(TFMS-Lu)	126857-69-0	--
586		Terbium(III) trifluoromethanesulfonate(TFMS-Tb)	148980-31-8	--
587		Neodymium(III) trifluoromethanesulfonate(TFMS-Nd)	34622-08-7	--
588		Ammonium trifluoromethanesulfonate(TFMS-NH_4)	38542-94-8	--
589		Holmium(III) trifluoromethanesulfonate(TFMS-Ho)	139177-63-2	--
590		Trifluoromethanesulfonate	37181-39-8	--
591		Praseodymium(III) trifluoromethanesulfonate(TFMS-Pr)	52093-27-3	--
592		Bismuth(III) trifluoromethanesulfonate(TFMS-Bi)	88189-03-1	--
593		Europium(III) trifluoromethanesulfonate(TFMS-Eu)	52093-25-1	--
594		Erbium(III) trifluoromethanesulfonate(TFMS-Er)	139177-64-3	--
595		Gallium(III) trifluoromethanesulfonate(TFMS-Ga)	74974-60-0	--
596		N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate	380230-73-9	--
597		Methanesulfonic acid, trifluoro-, calcium salt(TFMS-Ca)	55120-75-7	--
598		Thallium(1+) trifluoromethanesulfonate(TFMS-Tl)	73491-36-8	--
599		Hafnium(IV) Trifluoromethanesulfonate(TFMS-Hf)	161337-67-3	--
600		1-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Pentadecafluorooctyl)pyridinium trifluoromethanesulfonate	25061-59-0	--
601		Tetrapropylammonium trifluoromethanesulphonate (TFMS- $N(C_3H_7)_4$)	35925-48-5	--
602		(Heptafluoropropyl)(phenyl)iodanium trifluoromethanesulfonate	77758-79-3	--
603		Phenyl(tridecafluorohexyl)iodanium trifluoromethanesulfonate	77758-84-0	--
604		(Heptadecafluorooctyl)(phenyl)iodanium trifluoromethanesulfonate	77758-89-5	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
605		(1,1,1,2,3,3,3-Heptafluoropropan-2-yl)(phenyl)iodanium trifluoromethanesulfonate	82959-18-0	--
606		Triethylmethylammonium triflate	90756-35-7	--
607		Pentafluoroanilinium trifluoromethanesulfonate	912823-79-1	--
608		Tributylmethylammonium trifluoromethanesulfonate	944557-37-3	--
609	PFPrS, its salts	Perfluoropropate sulfonic acid (PFPrS)	423-41-6	0.010
610		Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9	--
611	--	1-pefluoroheptyl ethanol (7:2 secondary) (7:2sFTOH)	24015-83-6	0.200
612	--	4:2 Fluorotelomer iodide (4:2 FTI)	2043-55-2	0.200
613	PFHpSi, its salts	Perfluoroheptane-1-sulfinic acid (PFHpSi)	769067-51-8	0.010
614		1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na)	68555-66-8	--
615	PFOPA, its salts	Perfluorooctyl phosphoic acid (PFOPA)	40143-78-0	0.010
616		(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (1/1)	1263361-03-0	--
617	--	1H,1H-Perfluorooctylamine (7:1 $FTNH_2$)	307-29-9	0.200
618	--	Perfluoroheptanamide ($PFHpA-NH_2$)	2358-22-7	0.100
619	--	Perfluorobutyramide ($PFBA-NH_2$)	662-50-0	0.200
620	--	1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	0.200
621	--	N-methylperfluoro-1-butanesulfonamide (MeFBSA)	68298-12-4	0.010
622	--	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
623	TFA, its salts	Trifluoroacetic acid (TFA)	76-05-1	1.000
624		Sodium trifluoroacetate (TFA-Na)	2923-18-4	--
625		Thallium(III) trifluoroacetate (TFA-Tl)	23586-53-0	--
626		Lithium Trifluoroacetate (TFA-Li)	2923-17-3	--
627		Silver trifluoroacetate (TFA-Ag)	2966-50-9	--
628		Cesium Trifluoroacetate (TFA-Cs)	21907-50-6	--
629		Potassium trifluoroacetate (TFA-K)	2923-16-2	--
630		Ammoniumtrifluoroacetate ($TFA-NH_4$)	3336-58-1	--
631		Mercury(II) trifluoroacetate (TFA-Hg)	13257-51-7	--
632		Palladium(II) trifluoroacetate (TFA-Pd)	42196-31-6	--
633		Trifluoroacetate / Trifluoroacetic acid anion(TFA anion)	14477-72-6	--
634		Dimethyl[(trifluoroacetyl)oxy]sulfanium trifluoroacetate	57738-66-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
635		Aluminium tris(trifluoroacetate)(TFA-Al)	36554-89-9	--
636		Barium bis(trifluoroacetate)(TFA-Ba)	60884-92-6	--
637		Erbium tris(trifluoroacetate)(TFA-Er)	70236-99-6	--
638		Indium trifluoroacetate(TFA-In)	36554-90-2	--
639		Lanthanum tris(trifluoroacetate)(TFA-La)	70236-92-9	--
640		Nickel(2+) trifluoroacetate(TFA-Ni)	16083-14-0	--
641		Lead(II) trifluoroacetate(TFA-Pb)	4146-73-0	--
642		Acetic acid, trifluoro-, rhodium(2+) salt(TFA-Rh)	72654-51-4	--
643		Thulium tris(trifluoroacetate)(TFA-Tm)	70237-00-2	--
644		Ytterbium(3+) tris(trifluoroacetate)(TFA-Yb)	87863-62-5	--
645		Zinc bis(trifluoroacetate)(TFA-Zn)	21907-47-1	--
646		Ruthenium(II) 2,2,2-trifluoroacetate(TFA-Ru)	61612-84-8	--
647		Magnesium 2,2,2-trifluoroacetate(TFA-Mg)	123333-72-2	--
648		Copper(2+) trifluoroacetate(TFA-Cu)	123333-88-0	--
649		Methyltrioctylammonium trifluoroacetate	121107-16-2	--
650		Chromium(3+) tris(trifluoroacetate)(TFA-Cr)	16712-29-1	--
651		Tetraethylammonium trifluoroacetate(TFA-$N(C_2H_5)_4$)	30093-29-9	--
652		Tetrabutylammonium trifluoroacetate(TFA-$N(C_4H_9)_4$)	39481-22-6	--
653		Europium(3+) trifluoroacetate-water (1/3/3)(TFA-$Eu.H_2O$)	94079-71-7	--
654	BETI, its salts	Bis(pentafluoroethylsulfonyl)imide	152894-10-5	0.020
655		Lithium Bis(pentafluoroethanesulfonyl)imide	132843-44-8	--
656		Bis(perfluoroethylsulfonyl)imide anion	129318-46-3	--
657		Sodium bis((perfluoroethyl)sulfonyl)amide	152894-04-7	--
658		Potassium bis((perfluoroethyl)sulfonyl)amide	221203-22-1	--
659		1-Ethyl-3-methylimidazolium bis(perfluoroethylsulfonyl)imide	216299-76-2	--
660	--	Perfluoro-2-ethoxypropanoic acid(PEPA)	267239-61-2	0.010
661	PFDPA, its salts	Perfluorodecylphosphonic acid (PFDPA)	52299-26-0	0.010
662		Perfluorodecylphosphonic Acid 4-Methylbenzamine	--	--
663		Perfluorodecylphosphonic Acid Di-4-toluidine Salt	--	--
664	PFHxPA, its salts	Perfluorohexyl phosphonic acid	40143-76-8	0.010
665		Perfluorohexylphosphonic Acid 4-Methylbenzamine	1263361-02-9	--
666	--	((Perfluorooctyl)ethyl)phosphonic acid	80220-63-9	0.020
667	--	3-(Perfluorobutyl)propanoic acid	80705-13-1	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
668	--	Perfluoro-3,6,9-trioxaundecane-1,11-dioic acid	55621-18-6	0.020
669	--	Perfluorononanedioic acid	23453-64-7	0.020
670	--	Perfluorooctanedioic acid	678-45-5	0.020
671	--	Perfluamine	338-83-0	10.000

(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
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

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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 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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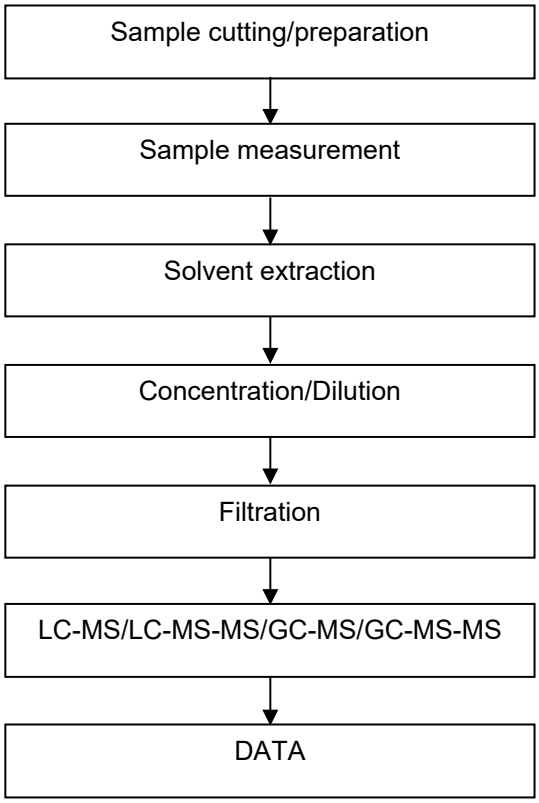
PFASs/ PFOS/PFOA Testing Flow Chart



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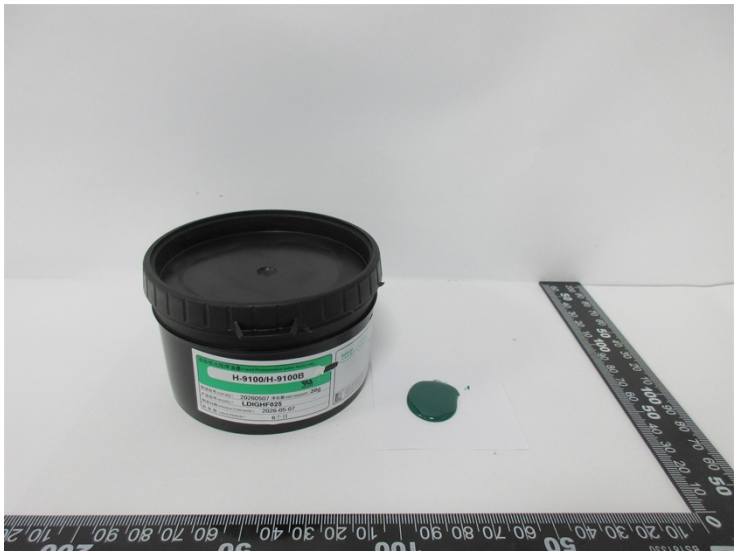

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