

Test Report (PFAS)

No.: CANEC24024797703

Date: Nov 19, 2024

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Client Name: KINGBOARD LAMINATES HOLDINGS LIMITED

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

Sample Name: KB-3151C

Model No.: KB-3151C

Client Ref. Information: KB-2150, KB-3151HS

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

SGS Job No.: GZP24-034929

Sample Receiving Date: Nov 07, 2024

Testing Period: Nov 07, 2024 ~ Nov 18, 2024

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:

470 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	Pass
--	------

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

Arsene Ye

Arsene Ye
Approved Signatory

scan to see the report



3D118650



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

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Test Sample:**Test Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0247977-0001.C001	Copper clad brown laminate(only test part without red "KB" printing)

470 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content**Test Method:**

Modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-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.

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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Appendix:

1. Appendix: 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 ₂ H ₄ OH) ₂)	70225-14-8	--
7		Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H 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-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8	--
9		Tetrabutylammonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7	--
10		Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7	--
11		Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)	91036-71-4	--
12		Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6	--
13		Perfluorooctanesulfonate	45298-90-6	--
14		Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃)	54439-46-2	--
15		Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5	--
16		N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9	--
17		N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₄ H 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 heptafluorooctane-1-sulfonate	773895-92-4	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
22		Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄)	2185049-59-4	--
23		Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H 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	FOSAA, its salts	Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.010
27		N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6	--
28		N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	--
29		N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5	--
30	N-MeFOSAA, its salts	N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.010
31		2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7	--
32		Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5	--
33	N-EtFOSAA, its salts	N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.010
34		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7	--
35		2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	--
36		Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8	--
37		Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	--
38	--	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.010
39	--	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	0.010
40	--	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	0.010
41	--	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.010
42	PFOSA, its salts	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	0.010
43		Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	--



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44		Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8	--
45		Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0	--
46		Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2	--
47		Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4	--
48	PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1	0.010
49		Sodium perfluorooctanoate (PFOA-Na)	335-95-5	--
50		Potassium perfluorooctanoate (PFOA-K)	2395-00-8	--
51		Silver perfluorooctanoate (PFOA-Ag)	335-93-3	--
52		Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	--
53		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	--
54		Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	--
55		Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	--
56		Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	--
57		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	--
58		Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9	--
59		Pentadecafluorooctanoate (anion)	45285-51-6	--
60		Perfluorooctanoic Anhydride	33496-48-9	--
61		N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9	--
62		Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7	--
63		Tetrapropylammonium perfluorooctanoate	277749-00-5	--
64		Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7	--
65		Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6	--
66		Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	95658-47-2	--
67		pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7	--
68		N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6	--
69	8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010
70		Potassium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-K)	438237-73-1	--



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71		Ammonium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-NH ₄)	149724-40-3	--
72		Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na)	27619-96-1	--
73		2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7	--
74	--	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.200
75	--	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.200
76	--	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)*	27905-45-9	0.100
77	--	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)*	1996-88-9	0.100
78	--	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.200
79	8:2 FTCA, its salts	2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5	0.010
80		Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7	--
81	--	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.100
82	--	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)*	2043-53-0	0.100
83	--	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)*	101947-16-4	0.100
84	8:2diPAP, its salts	Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1	0.010
85		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	--
86		Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	--
87		Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH ₄)	93776-20-6	--
88		8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1	--
89	8:3 FTCA, its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	0.010
90		Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1	--
91		2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8	--
92	--	1H,1H,2H-Heptafluoro-1-decene (PFDE)*	21652-58-4	0.200
93	--	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.010
94	--	1H,1H,2H,2H-Perfluorodecyltrichlorosilane*	78560-44-8	0.100
95	--	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane*	83048-65-1	
96	--	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.010
97	--	6:8 Perfluorophosphinic acid (6:8 PFPi)	610800-34-5	0.010
98	--	8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1	0.010



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99	8:8 PFPI, its salts	Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)	500776-69-2	--
100		Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)	500776-70-5	--
101		Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)	500776-71-6	--
102	--	1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)*	37858-04-1	0.100
103	8:2 monoPAP, its salts	8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	0.100
104		8:2 Fluorotelomer diammonium phosphate	93857-44-4	--
105		Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	--
106		Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	--
107		3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	--
108		Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	--
109		Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	--
110		Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	--
111	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
112		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
113		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4	--
114		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
115		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
116		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
117		Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6	--
118		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 ₂ H ₅) ₂	77032-27-0	--
119		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	--
120		Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7	--
121		Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9	--
122		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 ₆ H ₅))	95682-67-0	--



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123		Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2	--
124		Perfluorononanoate (anion)	72007-68-2	--
125		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0	--
126		Perfluorononanoic anhydride (PFNAA)	228407-54-3	--
127	PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2	0.010
128		Sodium perfluorodecanoate (PFDA-Na)	3830-45-3	--
129		Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7	--
130		Potassium perfluorodecanoate (PFDA-K)	51604-85-4	--
131		Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	--
132		Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	--
133		Perfluorodecanoate (anion)	73829-36-4	--
134		Perfluorodecanoic anhydride (PFDA)	942199-24-8	--
135	PFUnDA, its salts	Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.010
136		Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	--
137		Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5	--
138		Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	--
139		Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	--
140		Perfluoroundecanoate (anion)	196859-54-8	--
141	PFDoDA, its salts	Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.010
142		Ammonium tricosafuorododecanoate (PFDoDA-NH ₄)	3793-74-6	--
143		Perfluorododecanoate (anion)	171978-95-3	--
144	PFTTrDA, its salts	Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	0.010
145		Ammonium perfluorotridecanoate (PFTTrDA-NH ₄)	4288-72-6	--
146		Sodium perfluorotridecanoate (PFTTrDA-Na)	60872-01-7	--
147		Perfluorotridecanoate (anion)	862374-87-6	--
148	PFTDA, its salts	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
149		Perfluorotetradecanoate (anion)	365971-87-5	--
150	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010
151	PFDS, its salts	Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010
152		Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	--
153		Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	--
154		Ammonium perfluorodecanesulfonate (PFDS-NH ₄)	67906-42-7	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
155		Perfluorodecane sulfonate (anion)	126105-34-8	--
156		Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	--
157	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
158	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)*	17741-60-5	0.100
159	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)*	2144-54-9	0.100
160	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
161	10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.010
162		1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3	--
163	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)*	2043-54-1	0.100
164	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)*	30046-31-2	0.100
165	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
166		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
167		ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4	--
168		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--
169		Perfluorononane sulfonate (anion)	474511-07-4	--
170	PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.010
171		Perfluoroundecanesulfonate (anion)	441296-91-9	--
172	PFD _o DS, its salts	Perfluorododecanesulfonic acid (PFD _o DS)	79780-39-5	0.010
173		Sodium perfluoro-1-dodecanesulfonate (PFD _o DS-Na)	1260224-54-1	--
174		Potassium perfluorododecanesulfonate (PFD _o DS-K)	85187-17-3	--
175		Perfluorododecane sulfonate (anion)	343629-43-6	--
176	PFTrDS, its salts	Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	0.010
177		Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1	--
178	10:2 diPAP, its salts	10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.100
179		Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C ₄ H ₁₁ O ₂)	57677-98-2	--
180	--	Perfluorodecyl iodide (PFDI)*	423-62-1	0.100
181	--	Perfluorododecyl iodide (PFD _o DI)*	307-60-8	0.100
182	--	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.010
183	--	2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.010



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
184	--	1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)*	37858-05-2	0.100
185	PFHxS, its salts & derivatives	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.010
186		Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	--
187		Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	--
188		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	--
189		Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄)	68259-08-5	--
190		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	--
191		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₄ H ₉) ₄)	108427-54-9	--
192		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H ₅) ₄)	108427-55-0	--
193		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC ₄ H ₉)	1187817-57-7	--
194		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) ₃ C ₅ H ₄)	1310480-24-0	--
195		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 ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	1310480-27-3	--
196		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 ₈ H ₁₀) ₂ C ₁₇ H ₁₂)	1310480-28-4	--
197		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	--
198		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	--



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199		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	--
200		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 ₂ O ₂)	1462414-59-0	--
201		Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C ₆ H ₅) ₂)	153443-35-7	--
202		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	--
203		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	--
204		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 ₆ H ₄) ₂ (C ₄ H ₉) ₂)	213740-81-9	--
205		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	--
206		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 ₇ H ₇) ₂ C ₆ H ₅)	341548-85-4	--
207		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	--
208		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	--
209		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	--
210		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 ₆ H ₅) ₄ (C ₆ H ₄) ₂)	421555-73-9	--
211		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 ₆ H ₄) ₂ (C ₅ H ₁₁))	421555-74-0	--
212		Perfluorohexane sulphonyl fluoride(PFHxS-F)	423-50-7	--
213		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 ₆ H ₄) ₃ (C ₄ H ₉) ₃)	425670-70-8	--
214		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
215		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0	--
216		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 ₂ H ₅) ₃)	72033-41-1	--
217		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 ₆ H ₄) ₂ (C ₄ H ₉) ₂)	866621-50-3	--
218		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 ₆ H ₅) ₂ C ₇ H ₇)	910606-39-2	--
219		Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ 8 ₁₀ H ₉ O ₂)	911027-68-4	--
220		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	--
221		Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopenta decinium, 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	--
222		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
223		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[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer)	911027-69-5	--
224		Perfluorohexane sulfonate (anion)	108427-53-8	--
225		Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P (C ₄ H ₉) ₄)	2310194-12-6	--
226	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010
227	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
228	--	N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010
229	--	2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.200



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
230	--	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
231	--	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
232	--	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
233	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
234		Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	--
235		Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	--
236	PFHxA, its salts & derivatives	Perfluorohexane Acid (PFHxA)	307-24-4	0.010
237		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
238		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
239		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
240		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--
241		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
242		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
243		Perfluorohexanoic anhydride	308-13-4	--
244		Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2	--
245		Perfluorohexanoate (anion)	92612-52-7	--
246		Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	--
247		Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4	--
248		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	--
249	--	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.100
250	--	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.400
251	--	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.200
252	6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
253		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
254		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--
255		Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄)	59587-39-2	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
256		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	--
257		2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3	--
258	--	1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃)	51851-37-7	0.500
259	--	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.200
260	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
261	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	0.200
262	--	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
263	--	thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.200
264	6:2 monoPAP, its salts	6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	0.100
265		Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH ₄ NH ₄)	1000852-37-8	-
266	--	2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
267	--	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
268	--	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl)	102488-47-1	0.200
269	--	1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
270	--	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	0.200
271	6:2 FTPA, its salts	Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	0.100
272		Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP ₂ OH-Na(PFHEPA-Na))	1189052-95-6	--
273	--	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-(5:1 FTOH)	423-46-1	0.200
274	--	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.200
275	--	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.200
276	--	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	0.200
277	--	1-(perfluorohexyl)octane (F ₆ H ₈)	133331-77-8	0.200
278	--	1H,1H-Tridecafluoroheptylamine (6:1 FTNH ₂)	423-49-4	0.200
279	--	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.010
280	6:6 PFPI, its salts	6:6 Perfluorophosphinic acid (6:6 PFPI)	40143-77-9	0.010
281		Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPI-Na)	70609-44-8	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
282		Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPI-Yb)	500776-72-7	--
283		Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPI-Er)	500776-73-8	--
284	PFBA, its salts	Perfluorobutane Acid (PFBA)	375-22-4	0.010
285		Ammonium perfluorobutanoate (PFBA-NH ₄)	10495-86-0	--
286		Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	--
287		Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	--
288		Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	--
289		Lithium perfluorobutanoate (PFBA-Li)	4146-76-3	--
290		Heptafluorobutanoic acid-piperazine (1:1)	375-04-2	--
291		Perfluorobutanoate (anion)	45048-62-2	--
292	PFBS, its salts & derivatives	Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.010
293		Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3	--
294		Perfluorobutanesulfonic Acid Hydrate (PFBS-H ₂ O)	59933-66-3	--
295		lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	--
296		Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2	--
297		Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅)	220133-51-7	--
298		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P(C ₄ H ₉) ₄)	220689-12-3	--
299		N,N,N,-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-N(C ₂ H ₅) ₄)	25628-08-4	--
300		Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	--
301		Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O)	503155-89-3	--
302		Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	--
303		Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH ₄)	68259-10-9	--
304		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O)	209482-18-8	--
305		1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6	--
306		Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	--
307		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	194999-85-4	--
308		1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH(C ₂ H ₅ O) ₂)	70225-18-2	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
309		Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄))	108427-52-7	--
310		Diphenyliodonium nonafluorobutane-1-sulfonate((PFBS-I(C ₆ H ₅) ₂))	194999-82-1	--
311		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	241806-75-7	--
312		Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	425670-64-0	--
313		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	--
314		Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1015420-87-7	--
315		1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	905972-83-0	--
316		1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1001557-05-6	--
317		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	--
318		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	--
319		1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	124472-66-8	--
320		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	--
321		1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	56773-55-8	--
322		Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5	--
323		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	
324		Perfluorobutane sulfonate (anion)	45187-15-3	--
325		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4	--
326		Triethylammonium perfluorobutane sulfonate	182059-38-7	--
327		N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1)	334529-55-4	--
328		1-Hexadecylpyridinium perfluoro-1-butanesulfonate	334529-62-3	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
329		1-Butylpyridinium perfluoro-1-butanefulfonate	334529-64-5	--
330		N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanefulfonate	495417-51-1	--
331		Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanefulfonic acid (1:1)	722538-68-3	--
332	PFPeA, its salts	Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
333		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	--
334		Potassium perfluoropentanoate(PFPeA-K)	336-23-2	--
335		Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	--
336		Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4	--
337		Ammonium perfluoropentanoate(PFPeA-NH ₄)	68259-11-0	--
338		Perfluoropentanoate (anion)	45167-47-3	--
339		Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-C ₈ H ₁₀ N ₂ S)	64808-55-5	--
340		Perfluoropentanoic anhydride (PFPeAA)	308-28-1	--
341	HPFHpA, its salts	7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	0.010
342		Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
343		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)	376-34-1	--
344		7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	--
345	PFHpS, its salts	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
346		Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
347		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
348		Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4	--
349		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
350		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	--
351		Perfluoroheptane sulfonate (anion)	146689-46-5	--
352		Triethylammonium perfluoroheptane sulfonate	72033-40-0	--
353		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	--
354		Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1	--
355	PFHpA, its salts	Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
356		Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--
357		Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	--
358		Ammonium perfluoroheptanoate (PFHpA-NH ₄)	6130-43-4	--
359		Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
360		Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	--
361		Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	--
362		Perfluoroheptanoate (anion)	120885-29-2	--
363	HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6	0.010
364		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH ₄)	62037-80-3	--
365		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	--
366		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	--
367		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-	75579-39-4	--
368		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-	75579-40-7	--
369		Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	67963-75-1	--
370		Perfluoro(2-propoxypropanoate)	122499-17-6	--
371		2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7	--
372		Triethylaminium perfluoro-2-propoxypropanoate	165951-18-8	--
373		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	--
374		2,3,6-Triiodobenzoic acid (1-methyl-3-piperidiny)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1) (HFPO-C ₁₄ H ₁₆ I ₃ NO ₂)	2412106-69-3	--
375	4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
376		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	--
377		4:2 Fluorotelomer sulfonate (4:2 FTS(anion))	414911-30-1	--
378	PFPeS, its salts	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010
379		Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	--
380		Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	--
381		Ammonium perfluoropentanesulfonate (PFPeS-NH ₄)	68259-09-6	--
382		Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1	--
383		Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
384		Perfluoropentane sulfonate (anion)	175905-36-9	--
385		Triethylammonium perfluoropentane sulfonate	72033-42-2	--
386		Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1	--
387	--	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.010
388	--	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.010
389	PFHxDA, its salts	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
390		Hentriacontafluorohexadecanoate anion (PFHxDA(anion))	1214264-30-8	--
391	PFODA, its salts	Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010
392		Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8	--
393	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.200
394	ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
395		Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄)	958445-44-8	--
396		Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	--
397	--	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
398	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
399	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010
400	9Cl-PF ₃ ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF ₃ ONS)	756426-58-1	0.010
401		Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF ₃ ONS-K)	73606-19-6	--
402		Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF ₃ ONS-NH ₄)	1383434-28-3	--
403	11Cl-PF ₃ OUdS, its salts	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF ₃ OUdS)	763051-92-9	0.010
404		Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF ₃ OUdS-K)	83329-89-9	--
405	--	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.010
406	--	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.010
407	PFPeDA, its salts	Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	0.100
408		Nonacosafuoropentadecanoate (PFPeDA(anion))	1214264-29-5	--
409	--	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.200
410	--	2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	0.200
411	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.100



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412	--	Perfluorobutane sulfon amides (PFBSA)	30334-69-1	0.100
413	--	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC ₃ H ₈ O)	34454-97-2	0.010
414	11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
415		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-K)	307-71-1	--
416		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-NH ₄)	5081-02-7	--
417		11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	--
418	PFPrA, its salts	Pentafluoropropionic acid (PFPrA)	422-64-0	0.100
419		Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	--
420		Silver pentafluoropropionate (PFPrA-Ag)	509-09-1	--
421		Potassium pentafluoropropionate (PFPrA-K)	378-76-7	--
422		Ammonium pentafluoropropionate (PFPrA-NH ₄)	2730-58-7	--
423	HFPO-TA, its salts	Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	0.200
424		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	--
425		Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	--
426		Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH ₄)	13043-05-5	--
427		Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F)	2641-34-1	--
428	--	Perfluoroethane sulfonic acid (PFETs)	354-88-1	0.010
429	6:2 diPAP, its salts	6:2 Fluorotelomer phosphate diester (6:2 diPAP)	57677-95-9	0.010
430		Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na)	407582-79-0	--
431		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	--
432	TFSI, its salts	Bis(trifluoromethane)sulfonimide (TFSI)	82113-65-3	0.010
433		1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-11-4	--
434		Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide	405514-94-5	--
435		Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li)	90076-65-6	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
436		1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6	--
437	10:2 monoPAP, its salts	10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4	0.100
438		10:2 Fluortelomer diammonium dihydrogen phosphate	93857-45-5	--
439	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide	852527-50-5	0.010
440	TFMS, its salts	Trifluoromethane sulfonic acid (TFMS)	1493-13-6	0.010
441		Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9	--
442		Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	--
443		Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2	--
444		Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	--
445		Trifluoromethanesulfonic anhydride	358-23-6	--
446		Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	--
447		Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2	--
448		Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	--
449		Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2	--
450		Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	--
451		Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4	--
452		Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	--
453		Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	--
454		Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	--
455		Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	--
456		Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	--
457	PFPrS, its salts	Perfluoropropate sulfonic acid (PFPrS)	423-41-6	0.010
458		Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9	--
459	--	1-pefluoroheptyl ethanol (7:2 secondary) (7:2sFTOH)	24015-83-6	0.200
460	--	4:2 Fluortelomer iodide (4:2 FTI)	2043-55-2	0.200
461	PFHpSi, its salts	Perfluoroheptane-1-sulfinic acid (PFHpSi)	769067-51-8	0.010
462		1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na)	68555-66-8	--
463	PFOPA, its salts	Perfluorooctyl phosphoic acid (PFOPA)	40143-78-0	0.010
464		(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (1/1)	1263361-03-0	--
465	--	1H,1H-Perfluorooctylamine (7:1 FTNH ₂)	307-29-9	0.200
466	--	Perfluoroheptanamide (PFHpA-NH ₂)	2358-22-7	0.100



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
467	--	Perfluorobutyramide (PFBA-NH ₂)	662-50-0	0.200
468	--	1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	0.200
469	--	N-methylperfluoro-1-butanefulfonamide (MeFBSA)	68298-12-4	0.010
470	--	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

- For textile/leather, * Substances MDL = 0.200mg/kg.
- The conclusion is only applicable to the substance list in the report.



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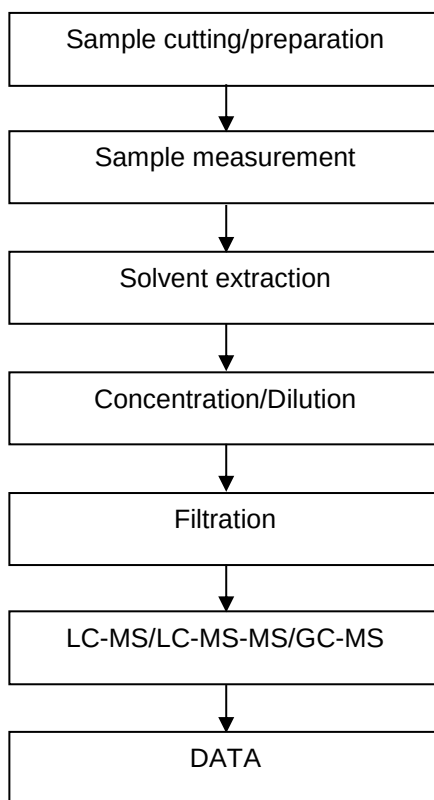
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ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



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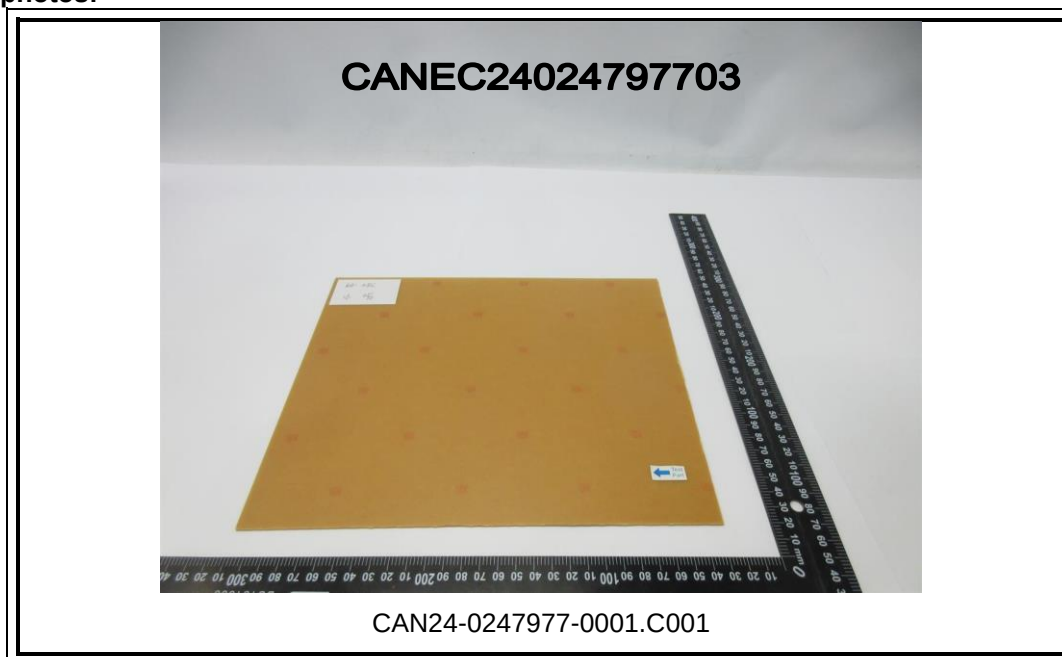
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Sample photos:



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SGS-CTI Standards Technical Services Co., Ltd.
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