

Test Report (PFAS)

No.: CANEC23015607305

Date: Dec 14, 2023

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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.: GZP23-018754

Sample Receiving Date: Dec 04, 2023

Testing Period: Dec 04, 2023 ~ Dec 13, 2023

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:

Total Fluorine Screening for Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Content	Pass
Targeted 233 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	Pass

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

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report



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

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Test Sample:

Sample Description:

Test Part ID	Material Description	Test Part ID	Material Description
A2	Copper clad brown laminate(only test part without "KB" printing)	-	-

Testing Group:

Test Result ID	Description	Test Part ID	No. of PFAS Tested	SGS Sample ID
001	Copper clad brown laminate(only test part without "KB" printing)	A2	91	CAN23-0156073-0001.C002

Total Fluorine Screening for Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Content

Test Method: With reference to IEC 62321-3-2:2020.

Test Item(s)	Limit	Unit(s)	MDL	A2
PFAS (expressed as Fluorine)	50	mg/kg	20	ND
Conclusion				Pass

Notes:

(1) The maximum permissible limit is quoted from the client requirement.

Targeted 233 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method:

Modified CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.



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

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

Substance Name	CAS No.	001 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:
List of PFAS, its salts & derivatives

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
1	PFOS, its salts & derivatives	Perfluorooctane sulfonates (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-dimethyldecyl-1-ammonium 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		Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7	--
10		Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4	--
11		Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	--
12	--	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.010
13	--	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	0.010
14	--	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	0.010
15	--	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.010
16	PFOSA, its salts	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	0.010
17		Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	--
18	PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1	0.010
19		Sodium perfluorooctanoate (PFOA-Na)	335-95-5	--
20		Potassium perfluorooctanoate (PFOA-K)	2395-00-8	--
21		Silver perfluorooctanoate (PFOA-Ag)	335-93-3	--
22		Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	--
23		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	--
24		Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	--
25	8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010



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26		Potassium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-K)	438237-73-1	--
27		Ammonium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-NH ₄)	149724-40-3	--
28		Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na)	27619-96-1	--
29	--	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.100
30	--	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.100
31	--	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.100
32	--	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.100
33	--	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.100
34	H ₂ PFDA/8:2 FTCA, its salts	2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA)	27854-31-5	0.010
35		Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7	--
36	--	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.100
37	--	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	0.100
38	--	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	0.100
39	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
40		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	--
41	H ₄ PFUnDA/8:3 FTCA, its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/8:3 FTCA)	34598-33-9	0.010
42		Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H ₄ PFUnDA-K)	83310-58-1	--
43	--	1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	0.100
44	--	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.010
45	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
46		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
47		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4	--
48		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
49		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
50		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
51		PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2
52	Sodium perfluorodecanoate (PFDA-Na)		3830-45-3	--
53	Perfluorodecanoate ammonium salt (PFDA-NH ₄)		3108-42-7	--
54	Potassium perfluorodecanoate (PFDA-K)		51604-85-4	--
55	Silver perfluorodecanoate (PFDA-Ag)		5784-82-7	--
56	Lithium perfluorodecanoate (PFDA-Li)		84743-32-8	--
57		Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.010



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58	PFUnDA, its salts	Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	--
59		Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5	--
60		Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	--
61		Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	--
62	PFDoDA, its salts	Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.010
63		Ammonium tricosafuorododecanoate (PFDoDA-NH ₄)	3793-74-6	--
64		Sodium perfluorododecanoate (PFDoDA-Na)	60872-01-7	--
65	PFTTrDA, its salts	Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	0.010
66		Ammonium perfluorotridecanoate (PFTTrDA-NH ₄)	4288-72-6	--
67	--	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
68	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010
69	PFDS, its salts	Perfluorodecane Sulfonate (PFDS)	335-77-3	0.010
70		Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7	--
71		Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8	--
72		Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7	--
73	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
74	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.100
75	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.100
76	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
77	--	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.010
78	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	0.100
79	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.100
80	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
81		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
82		ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4	--
83		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--
84	--	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1/ 441296-91-9 (anion)	0.010
85	PFDoDS, its salts	Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	0.010
86		Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1	--
87		Perfluorotridecane sulfonic acid (PFTTrDS)	791563-89-8	0.010



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89	--	10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.100
90	--	Perfluorodecyl iodide (PFDI)	423-62-1	0.100
91	--	Perfluorododecyl iodide (PFDoDI)	307-60-8	0.100
92	PFHxS, its salts & derivatives	Perfluorohexane Sulfonate (PFHxS)	355-46-4	0.010
93		Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	--
94		Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	--
95		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	--
96		Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄)	68259-08-5	--
97		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	--
98		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate (PFHxS-N(C ₄ H ₉) ₄)	108427-54-9	--
99		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (PFHxS-N(C ₂ H ₅) ₄)	108427-55-0	--
100		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	--
101		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	--
102		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	--
103		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	--
104		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	--
105		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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106	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	--
107	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	--
108	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	--
109	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	--
110	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	--
111	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	--
112	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	--
113	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	--
114	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	--
115	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	--
116	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	--
117	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	--
118	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(PFHxS-I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂)	421555-74-0	--
119	Perfluorohexane sulphonyl fluoride(PFHxS-F)	423-50-7	--
120	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	--
121	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--
122	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0	--



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123		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	--
124		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	--
125		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	--
126		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-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂)	911027-68-4	--
127		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)	92011-17-1	--
128		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	--
129		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
130		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	--
131	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010
132	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
133	--	N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010
134	--	2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.500
135	--	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	0.100
136	--	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	0.100
137	--	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



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138	--	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	68957-32-4	0.010
139	PFHxA, its salts & derivatives	Perfluorohexane Acid (PFHxA)	307-24-4	0.010
140		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
141		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
142		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
143		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--
144		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
145		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
146		PFBA, its salts	Perfluorobutane Acid (PFBA)	375-22-4
147	Ammonium perfluorobutanoate (PFBA-NH ₄)		10495-86-0	--
148	Sodium perfluorobutanoate (PFBA-Na)		2218-54-4	--
149	Potassium heptafluorobutanoate (PFBA-K)		2966-54-3	--
150	Silver perfluorobutanoate (PFBA-Ag)		3794-64-7	--
151	Lithium perfluorobutanoate (PFBA-Li)		4146-76-3	--
152	PFBS, its salts & derivatives	Perfluorobutane Sulfonate (PFBS)	375-73-5	0.010
153		Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3	--
154		Perfluorobutanesulfonic Acid Hydrate (PFBS-H ₂ O)	59933-66-3	--
155		lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	--
156		Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2	--
157		Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅)	220133-51-7	--
158		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P(C ₄ H ₉) ₄)	220689-12-3	--
159		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	--
160		Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	--
161		Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O)	503155-89-3	--
162		Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	--
163		Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH ₄)	68259-10-9	--
164		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O)	209482-18-8	--
165		1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6	--
166		Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	--
167		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	194999-85-4	--
168	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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169	PFPeA, its salts	Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
170		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	--
171		Potassium perfluoropentanoate(PFPeA-K)	336-23-2	--
172		Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	--
173		Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4	--
174		Ammonium perfluoropentanoate(PFPeA-NH ₄)	68259-11-0	--
175	HPFHpA, its salts	7H-Dodecafluoroheptane Acid (HPFHpA)	1546-95-8	0.010
176		Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
177		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)	376-34-1	--
178	PFHpS, its salts	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
179		Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
180		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
181		Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4	--
182		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
183	PFHpA, its salts	Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
184		Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--
185		Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	--
186		Ammonium perfluoroheptanoate (PFHpA-NH ₄)	6130-43-4	--
187		Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	--
188		Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	--
189		Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	--
190	6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
191		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
192		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--
193		Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄)	59587-39-2	--
194		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	--
195	--	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.100
196	--	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.100
197	--	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.100
198	HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6	0.010
199		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH ₄)	62037-80-3	--
200		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	--



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201		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	--
202	4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
203		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	--
204		Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.010
205		N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.010
206		N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.010
207	PFPeS, its salts	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010
208		Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	--
209		Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	--
210		Ammonium perfluoropentanesulfonate (PFPeS-NH ₄)	68259-09-6	--
211	--	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.010
212	--	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.010
213	--	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
214	--	Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010
215	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.100
216	--	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
217	--	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
218	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
219	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010
220	--	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.010
221	--	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.010
222	--	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.010
223	--	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.010
224	--	Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	0.100
225	--	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.100
226	--	2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	0.100
227	--	Perfluorooctyl triethoxysilane (POTS)	51851-37-7	0.100
228	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.100
229	--	Perfluorobutane sulfon amides	30334-69-1	0.100



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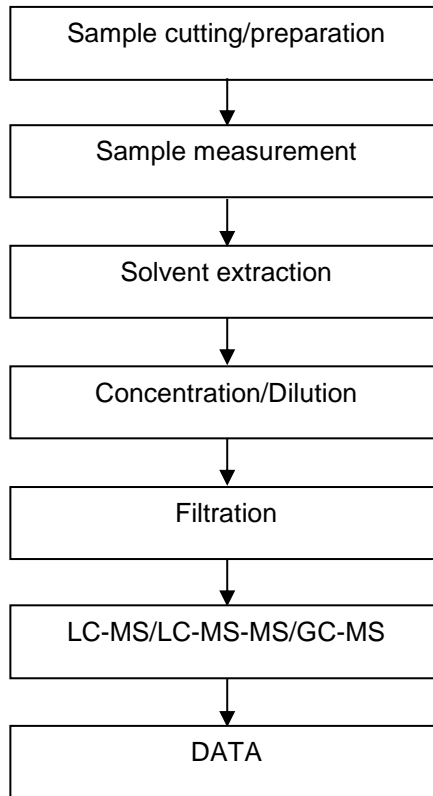
230	--	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC ₃ H ₈ O)	34454-97-2	0.010
231	11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
232		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosaf luoroundecanoate (11H-PFUnDA-K)	307-71-1	--
233		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosaf luoroundecanoate (11H-PFUnDA-NH ₄)	5081-02-7	--



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ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



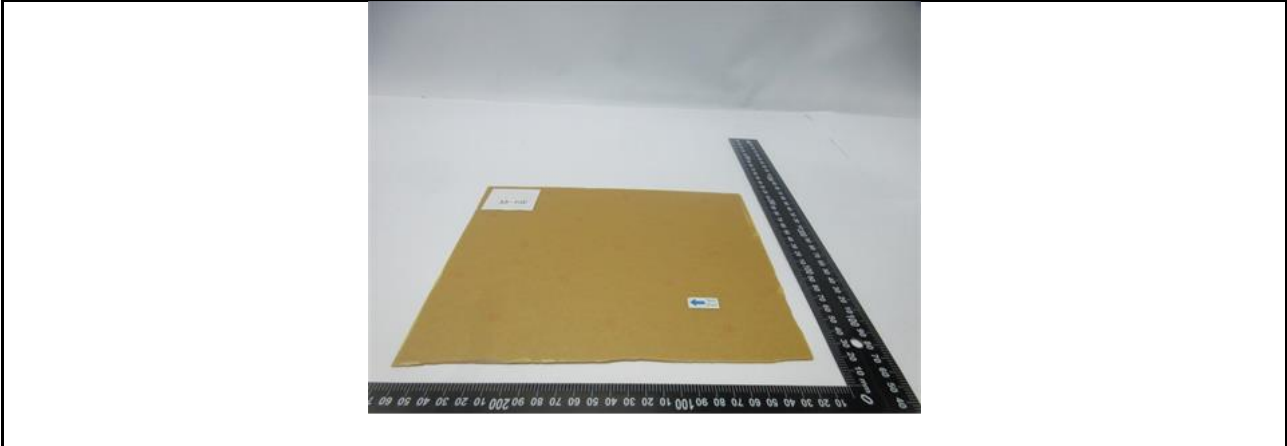
Test Report (PFAS)

No.: CANEC23015607305

Date: Dec 14, 2023

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Sample photos:



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Guangzhou Branch Technical Laboratory

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