



Test Report

Report No. A224064706010600101

Page 1 of 19

Company Name DONGGUAN YONGSHENG SPORTS GOODS CO., LTD.

shown on Report

Address 388# LIAODONG ROAD, LIAOBU TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	SBR
Sample Received Date	Nov. 22, 2024
Testing Period	Nov. 22, 2024 to Nov. 26, 2024

Test Conducted:

As requested by the applicant. For details refer to next page(s)



Date

Jan.17, 2025

Hill Zheng
Technical Manager

No. S573441793

al Group Co.,Ltd.

Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Report No. A224064706010600101

Page 2 of 19

Executive Summary:

TEST REQUEST

CONCLUSION

Client's requirement

- Perfluoroalkyl and polyfluoroalkyl substances (PFAS)

See test result(s)

***** For further details, please refer to the following page(s) *****

Test Report

Report No. A224064706010600101

Page 3 of 19

Client's requirement

▼ Perfluoroalkyl and polyfluoroalkyl substances (PFAS)

Test Method: EN 17681-1:2022&EN 17681-2:2022; Test Equipment: LC-MS-MS & GC-MS

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL
			001	(mg/kg)
1	Perfluorooctane Sulfonates (PFOS)	1763-23-1	N.D.	0.010
2	Perfluorooctanesulfonic acid, potassium salt (PFOS-K)*	2795-39-3	N.D.	0.020
3	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)*	29457-72-5	N.D.	0.010
4	Sodium perfluorooctane sulfonate (PFOS-Na)*	4021-47-0	N.D.	0.010
5	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, magnesium salt (2:1) (PFOS-Mg)*	91036-71-4	N.D.	0.020
6	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)*	29081-56-9	N.D.	0.010
7	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)*	70225-14-8	N.D.	0.020
8	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	N.D.	0.020
9	Tetrabutylammonium perfluorooctanesulfonate (PFOS-NH(C ₁₆ H ₃₆))*	111873-33-7	N.D.	0.015
10	Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)*	251099-16-8	N.D.	0.020
11	Perfluoro-1-octanesulfonyl fluoride (PFOSF)*	307-35-7	N.D.	0.010
12	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate*	71463-74-6	N.D.	0.020
13	Tetramethylammonium perfluorooctane sulfonate (PFOS-C ₄ H ₁₂ N)*	56773-44-5	N.D.	0.010
14	Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)*	2205029-08-7	N.D.	0.010
15	Triethylammonium perfluorooctane sulfonate (PFOS-C ₆ H ₁₅ N)*	54439-46-2	N.D.	0.010
16	N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-C ₁₃ H ₃₀ N)*	124472-68-0	N.D.	0.015
17	N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-C ₁₄ H ₃₂ N)*	56773-56-9	N.D.	0.015
18	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-C ₁₆ H ₃₆ P)*	2185049-59-4	N.D.	0.015
19	Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)*	1203998-97-3	N.D.	0.015
20	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1) (PFOS-C ₂₀ H ₂₆ I)*	213740-80-8	N.D.	0.020
21	Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate (PFOS-C ₂₁ H ₂₁ S)*	258341-99-0	N.D.	0.020
22	1-Hexadecylpyridinium perfluoro-1-octanesulfonate (PFOS-C ₂₁ H ₃₈ N)*	334529-63-4	N.D.	0.020
23	Perfluorooctane sulfonic anhydride (PFOSAN)*	423-92-7	N.D.	0.020

Test Report

Report No. A224064706010600101

Page 4 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
24	N,N,N-Triethyldecane-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₆ H ₃₆ N)*	773895-92-4	N.D.	0.020
25	Perfluorooctanesulfonate (PFOS (anion))*	45298-90-6	N.D.	0.010
26	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.050
27	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.050
28	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.050
29	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.050
30	Perfluorooctanoic acid (PFOA)	335-67-1	N.D.	0.010
31	Ammonium pentadecafluorooctanoate (APFO)*	3825-26-1	N.D.	0.010
32	Sodium perfluorooctanoate (PFOA-Na)*	335-95-5	N.D.	0.020
33	Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	N.D.	0.020
34	Lithium perfluorooctanoate (PFOA-Li)*	17125-58-5	N.D.	0.010
35	Silver perfluorooctanoate (PFOA-Ag)*	335-93-3	N.D.	0.020
36	Perfluorooctanoyl fluoride (PFOA-F)*	335-66-0	N.D.	0.010
37	Cesium perfluorooctanoate (PFOA-Cs)*	17125-60-9	N.D.	0.020
38	Cobalt perfluorooctanoate (PFOA-Co)*	35965-01-6	N.D.	0.025
39	Chromium(III) perfluorooctanoate (PFOA-Cr)*	68141-02-6	N.D.	0.025
40	N,N,N-Triethylethanaminium perfluorooctanoate (PFOA-NH(C ₈ H ₁₉))*	98241-25-9	N.D.	0.015
41	Tetrapropylammonium perfluorooctanoate (PFOA-NH(C ₁₂ H ₂₇))*	277749-00-5	N.D.	0.015
42	Perfluorooctanoate N,N,N-Trimethylmethanaminium (PFOA-NH(C ₄ H ₁₁))*	32609-65-7	N.D.	0.015
43	Pentadecafluorooctanoic acid-piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))*	423-52-9	N.D.	0.015
44	Potassium pentadecafluorooctanoate-water (1/1/2) (PFOA-K(H ₂ O) ₂)*	98065-31-7	N.D.	0.010
45	Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)*	1376936-03-6	N.D.	0.010
46	Pentadecafluorooctanoic acid-pyridine (1/1) (PFOA-C ₅ H ₅ N)*	95658-47-2	N.D.	0.010
47	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)*	1514-68-7	N.D.	0.015
48	N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)*	927835-01-6	N.D.	0.015
49	Perfluorooctanoic Anhydride (PFOAA)*	33496-48-9	N.D.	0.020
50	Pentadecafluorooctanoate (anion) (PFOA (anion))*	45285-51-6	N.D.	0.010
51	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	N.D.	0.010
52	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	N.D.	0.010
53	Perfluorooctyl iodide (PFOI)	507-63-1	N.D.	0.200
54	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	N.D.	0.200
55	1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	N.D.	0.200
56	1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium (8:2 FTS-Na)*	27619-96-1	N.D.	0.200

Test Report

Report No. A224064706010600101

Page 5 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
57	Potassium 2-(perfluorooctyl)ethane-1-sulfonate (8:2 FTS-K)*	438237-73-1	N.D.	0.200
58	8:2 Fluorotelomer sulfonate ammonium salt (8:2 FTS-NH ₄)*	149724-40-3	N.D.	0.200
59	2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS (anion))*	481071-78-7	N.D.	0.200
60	1,1,2,2-Tetrahydroperfluorodecyl acrylate (8:2 FTAC)	27905-45-9	N.D.	0.200
61	2-Propenoic acid,2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester (8:2 FTMA)	1996-88-9	N.D.	0.200
62	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (PFSI)	101947-16-4	N.D.	0.200
63	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo- (8:2 FTI)	2043-53-0	N.D.	0.200
64	8:2 Fluorotelomer phosphate diester (8:2diPAP)	678-41-1	N.D.	0.200
65	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)*	114519-85-6	N.D.	0.200
66	Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-NH ₄)*	93776-20-6	N.D.	0.200
67	Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate (8:2diPAP-C ₄ H ₁₁ NO ₂)*	57677-97-1	N.D.	0.200
68	8:2 Fluorotelomer phosphate diester ion (1-)(8:2diPAP (anion))*	1411713-91-1	N.D.	0.200
69	Perfluorooctanesulfonamide (PFOSA)	754-91-6	N.D.	0.010
70	Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)*	76752-79-9	N.D.	0.010
71	Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)*	76752-78-8	N.D.	0.010
72	Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)*	76752-70-0	N.D.	0.010
73	Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)*	76752-72-2	N.D.	0.010
74	Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)*	76752-82-4	N.D.	0.010
75	Perfluorohexanoic acid (PFHxA)	307-24-4	N.D.	0.010
76	Sodium undecafluorohexanoate (PFHxA-Na)*	2923-26-4	N.D.	0.020
77	Hexanoic acid, undecafluoro-, potassium salt (PFHxA-K)*	3109-94-2	N.D.	0.020
78	Lithium perfluorohexanoate (PFHxA-Li)*	90430-61-8	N.D.	0.010
79	Silver perfluorohexanoate (PFHxA-Ag)*	336-02-7	N.D.	0.020
80	Ammonium perfluorohexanoate (PFHxA-NH ₄)*	21615-47-4	N.D.	0.020
81	Perfluorohexanoyl fluoride (PFHxA-F)*	355-38-4	N.D.	0.010
82	Perfluorohexanoyl chloride (PFHxA-Cl)*	335-53-5	N.D.	0.010
83	Methyl perfluorohexanoate (APFHxA)*	424-18-0	N.D.	0.010
84	Perfluorohexanoic anhydride (PFHxAA)*	308-13-4	N.D.	0.020
85	Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl) (PFHxA-C ₄ H ₁₀ N ₂)*	423-47-2	N.D.	0.010
86	Undecafluorohexanoic acid-hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)*	565225-91-4	N.D.	0.010

Test Report

Report No. A224064706010600101

Page 6 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
87	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	N.D.	0.015
88	Perfluorohexanoate (anion) (PFHxA (anion))*	92612-52-7	N.D.	0.010
89	Perfluoroheptanoic acid (PFHpA)	375-85-9	N.D.	0.010
90	Sodium perfluoroheptanoate (PFHpA-Na)*	20109-59-5	N.D.	0.020
91	Potassium perfluoroheptanoate (PFHpA-K)*	21049-36-5	N.D.	0.020
92	Lithium perfluoroheptanoate (PFHpA-Li)*	60871-90-1	N.D.	0.010
93	Silver perfluoroheptanoate (PFHpA-Ag)*	424-05-5	N.D.	0.020
94	Cesium perfluoroheptanoate (PFHpA-Cs)*	171198-24-6	N.D.	0.020
95	Ammonium perfluoroheptanoate (PFHpA-NH ₄)*	6130-43-4	N.D.	0.010
96	Perfluoroheptanoate (anion) (PFHpA (anion))*	120885-29-2	N.D.	0.010
97	Perfluorobutane sulfonic acid (PFBS)	375-73-5	N.D.	0.010
98	Sodium perfluorobutanesulfonate (PFBS-Na)*	60453-92-1	N.D.	0.020
99	Perfluorobutanesulfonate K-salt (PFBS-K)*	29420-49-3	N.D.	0.020
100	Lithium perfluorobutanesulfonate (PFBS-Li)*	131651-65-5	N.D.	0.010
101	Magnesium perfluorobutanesulfonate (PFBS-Mg)*	507453-86-3	N.D.	0.025
102	Perfluorobutane sulfonic acid hydrate (PFBS-H ₂ O)*	59933-66-3	N.D.	0.020
103	1-Butanesulfonyl fluoride, 1,1,2,2,3,3,4,4,4-nonafluoro-(PFBSF)*	375-72-4	N.D.	0.010
104	Nonafluoro-1-butanesulfonyl chloride (PFBSCl)*	2991-84-6	N.D.	0.020
105	N,N,N-Triethyl-1-[(1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonyl)oxy]ethan-1-aminium (PFBS-N(CH ₃ CH ₂) ₄)*	25628-08-4	N.D.	0.020
106	Ammonium perfluorobutanesulfonate (PFBS-NH ₄)*	68259-10-9	N.D.	0.020
107	Triphenylsulfonium nonaflate (PFBS-S(C ₆ H ₅) ₃)*	144317-44-2	N.D.	0.020
108	Dimethyl (phenyl) sulfonium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅)*	220133-51-7	N.D.	0.020
109	Tetrabutylphosphorus perfluorobutylsulfonate (PFBS-P(C ₄ H ₉) ₄)*	220689-12-3	N.D.	0.020
110	Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O)*	503155-89-3	N.D.	0.020
111	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-S(C ₄ H ₈)(C ₁₀ H ₆)OC ₄ H ₉)*	209482-18-8	N.D.	0.020
112	Bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)*	194999-85-4	N.D.	0.020
113	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	N.D.	0.020
114	Tetrabutylammonium nonafluorobutanesulfonate (PFBS-N(C ₄ H ₉) ₄)*	108427-52-7	N.D.	0.020
115	Diphenyliodonium nonafluorobutane-1-sulfonate (PFBS-I(C ₆ H ₅) ₂)*	194999-82-1	N.D.	0.020
116	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₃₀ H ₃₉ S)*	241806-75-7	N.D.	0.020
117	Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₂₄ H ₂₅ S)*	425670-64-0	N.D.	0.020

Test Report

Report No. A224064706010600101

Page 7 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
118	Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoro-1-butanesulfonate (1:1) (PFBS-C ₁₃ H ₁₆ NS)*	867373-18-0	N.D.	0.020
119	Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₈ H ₁₂ N)*	1015420-87-7	N.D.	0.020
120	1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₁₂ H ₂₃ N ₂)*	905972-83-0	N.D.	0.020
121	1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₁₀ H ₁₉ N ₂)*	1001557-05-6	N.D.	0.020
122	2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₈ H ₂₀ N)*	374571-81-0	N.D.	0.020
123	Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₂₄ H ₂₅ O ₃ S)*	857285-80-4	N.D.	0.020
124	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₁₃ H ₃₀ N)*	124472-66-8	N.D.	0.020
125	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)*	502457-69-4	N.D.	0.020
126	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (PFBS-C ₁₄ H ₃₂ N)*	56773-55-8	N.D.	0.020
127	Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)*	25628-17-5	N.D.	0.010
128	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride (PFBSA)*	36913-91-4	N.D.	0.020
129	Perfluorobutane sulfonate (anion) (PFBS (anion))*	45187-15-3	N.D.	0.010
130	Triethylammonium perfluorobutane sulfonate (PFBS-C ₆ H ₁₅ N)*	182059-38-7	N.D.	0.020
131	N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1) (PFBS-C ₁₂ H ₂₈ NO)*	334529-55-4	N.D.	0.020
132	1-Hexadecylpyridinium perfluoro-1-butanesulfonate (PFBS-C ₂₁ H ₃₈ N)*	334529-62-3	N.D.	0.020
133	1-Butylpyridinium perfluoro-1-butanesulfonate (PFBS-C ₉ H ₁₄ N)*	334529-64-5	N.D.	0.020
134	N-Methyl-N,N-diethyl-1-octanaminium perfluoro-1-butanesulfonate (PFBS-C ₂₅ H ₅₄ N)*	495417-51-1	N.D.	0.020
135	Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1) (PFBS-C ₂₁ H ₂₁ S)*	722538-68-3	N.D.	0.020
136	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	N.D.	0.010
137	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)*	82382-12-5	N.D.	0.020
138	Potassium perfluorohexane-1-sulphonate (PFHxS-K)*	3871-99-6	N.D.	0.020
139	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	N.D.	0.010
140	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)*	70136-72-0	N.D.	0.025

Test Report

Report No. A224064706010600101

Page 8 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
141	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI) (PFHxS-Ga)*	341035-71-0	N.D.	0.010
142	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	N.D.	0.010
143	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	N.D.	0.010
144	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	N.D.	0.010
145	Cesium Perfluorohexanesulfonate (PFHxS-Cs)*	92011-17-1	N.D.	0.020
146	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1) (PFHxS-NH ₄)*	68259-08-5	N.D.	0.010
147	1-Hexanesulfonyl fluoride,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (PFHxSF)*	423-50-7	N.D.	0.010
148	1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluorohexane-1-sulphonyl chloride (PFHxS-Cl)*	55591-23-6	N.D.	0.020
149	Perfluorohexylsulfonate (PFHxS(anion))*	108427-53-8	N.D.	0.010
150	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	N.D.	0.020
151	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) ₂)*	421555-74-0	N.D.	0.020
152	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	N.D.	0.020
153	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	N.D.	0.020
154	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	N.D.	0.020
155	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	N.D.	0.020
156	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	N.D.	0.020
157	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*	911027-69-5	N.D.	0.020

Test Report

Report No. A224064706010600101

Page 9 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
158	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	N.D.	0.020
159	Phosphonium, triphenyl(phenylmethyl)-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-P(C ₆ H ₅) ₃ C ₇ H ₇)*	1000597-52-3	N.D.	0.020
160	1-Butanaminium, N,N,N-tributyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (PFHxS-N(C ₄ H ₉) ₄)*	108427-54-9	N.D.	0.020
161	Ethanaminium,N,N,N-triethyl-,salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-N(C ₂ H ₅) ₄)*	108427-55-0	N.D.	0.020
162	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	N.D.	0.020
163	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₃)*	144116-10-9	N.D.	0.020
164	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	N.D.	0.020
165	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	N.D.	0.020
166	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-N(CH ₃) ₄)*	189274-31-5	N.D.	0.020
167	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	N.D.	0.020
168	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	N.D.	0.020
169	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	N.D.	0.020
170	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) (PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄)*	1310480-24-0	N.D.	0.020

Test Report

Report No. A224064706010600101

Page 10 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
171	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	N.D.	0.020
172	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	N.D.	0.020
173	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	N.D.	0.020
174	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	N.D.	0.020
175	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFHxS-NH(C ₂ H ₅ O) ₂)*	70225-16-0	N.D.	0.020
176	Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P(C ₄ H ₉) ₄)*	2310194-12-6	N.D.	0.020
177	Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	N.D.	0.010
178	Perfluoroheptanesulfonate NA-salt (PFHpS-Na)*	21934-50-9	N.D.	0.010
179	Potassium Perfluoroheptanesulfonate (PFHpS-K)*	60270-55-5	N.D.	0.020
180	Lithium perfluoroheptanesulfonate (PFHpS-Li)*	117806-54-9	N.D.	0.010
181	Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)*	68259-07-4	N.D.	0.010
182	Bis(2-hydroxyethyl)ammonium perfluoroheptanesulfonate (PFHpS-NH(C ₄ H ₁₁))*	70225-15-9	N.D.	0.010
183	Triethylammonium perfluoroheptane sulfonate (PFHpS-C ₆ H ₁₅ N)*	72033-40-0	N.D.	0.010
184	Tetraethylammonium perfluoroheptane sulfonate (PFHpS-C ₈ H ₂₀ N)*	439863-97-5	N.D.	0.010
185	Perfluoroheptane sulfonic anhydride (PFHpSA)*	140429-92-1	N.D.	0.020
186	Perfluoroheptane sulfonate (anion) (PFHpS (anion))*	146689-46-5	N.D.	0.010
187	Perfluoroundecanoic acid (PFUnDA)	2058-94-8	N.D.	0.010
188	Sodium perfluoroundecanoate (PFUnDA-Na)*	60871-96-7	N.D.	0.010
189	Potassium perfluoroundecanoate (PFUnDA-K)*	30377-53-8	N.D.	0.020
190	Calcium perfluoroundecanoate (PFUnDA-Ca)*	97163-17-2	N.D.	0.025
191	Ammonium perfluoroundecanoate (PFUnDA-NH ₄)*	4234-23-5	N.D.	0.010
192	Perfluoroundecanoate (anion) (PFUnDA (anion))*	196859-54-8	N.D.	0.010
193	Perfluorododecanoic acid (PFDoDA)	307-55-1	N.D.	0.010
194	Ammonium tricosfluorododecanoate (PFDoDA-NH ₄)*	3793-74-6	N.D.	0.010
195	Perfluorododecanoate (anion) (PFDoDA (anion))*	171978-95-3	N.D.	0.010
196	Perfluorotridecanoic acid (PFTrDA)	72629-94-8	N.D.	0.010
197	Sodium perfluorotridecanoate (PFTrDA-Na)*	60872-01-7	N.D.	0.010
198	Ammonium perfluorotridecanoate (PFTrDA-NH ₄)*	4288-72-6	N.D.	0.010
199	Perfluorotridecanoate (anion) (PFTrDA (anion))*	862374-87-6	N.D.	0.010
200	Perfluorotetradecanoic acid (PFTeDA)	376-06-7	N.D.	0.010

Test Report

Report No. A224064706010600101

Page 11 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
201	Perfluorotetradecanoate (anion) (PFTeDA (anion))*	365971-87-5	N.D.	0.010
202	Henicosafuorodecanesulphonic acid (PFDS)	335-77-3 126105-34-8	N.D.	0.010
203	Perfluorodecanesulfonate NA-salt (PFDS-Na)*	2806-15-7	N.D.	0.010
204	Perfluorodecanesulfonate K-salt (PFDS-K)*	2806-16-8	N.D.	0.020
205	Ammonium henicosafuorodecanesulphonate (PFDS-NH ₄)*	67906-42-7	N.D.	0.010
206	Perfluorodecane sulfonic anhydride (PFDSA)*	51667-62-0	N.D.	0.020
207	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid (6:2 FTS)	27619-97-2	N.D.	0.010
208	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid sodium salt (6:2 FTS-Na)*	27619-94-9	N.D.	0.010
209	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid potassium salt (6:2 FTS-K)*	59587-38-1	N.D.	0.010
210	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid ammonium salt (6:2 FTS-NH ₄)*	59587-39-2	N.D.	0.010
211	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 ²⁺)*	1807944-82-6	N.D.	0.020
212	2-(Perfluorohexyl)ethane-1-sulfonate (6:2 FTS (anion))*	425670-75-3	N.D.	0.010
213	Perfluoro-butanolic acid (PFBA)	375-22-4	N.D.	0.010
214	Sodium heptafluorobutyrate (PFBA-Na)*	2218-54-4	N.D.	0.020
215	Potassium heptafluorobutanoate (PFBA-K)*	2966-54-3	N.D.	0.020
216	Lithium perfluorobutanoate (PFBA-Li)*	4146-76-3	N.D.	0.010
217	Silver perfluorobutanoate (PFBA-Ag)*	3794-64-7	N.D.	0.020
218	Ammonium perfluorobutanoate (PFBA-NH ₄)*	10495-86-0	N.D.	0.020
219	Heptafluorobutanoic acid-piperazine (1:1) (PFBA-C ₄ H ₁₀ N ₂)*	375-04-2	N.D.	0.020
220	Perfluorobutanoate (anion) (PFBA (anion))*	45048-62-2	N.D.	0.010
221	Perfluoropentanoic acid (PFPeA)	2706-90-3	N.D.	0.010
222	Sodium perfluorovalerate (PFPeA-Na)*	2706-89-0	N.D.	0.020
223	Potassium nonafluoropentanoate (PFPeA-K)*	336-23-2	N.D.	0.020
224	Lithium perfluoropentanoate (PFPeA-Li)*	198482-22-3	N.D.	0.010
225	Silver perfluoropentanoate (PFPeA-Ag)*	2795-30-4	N.D.	0.020
226	Ammonium perfluoropentanoate (PFPeA-NH ₄)*	68259-11-0	N.D.	0.020
227	Nonafluoropentanoic acid-1-benzylthiourea (1:1) (PFPeA-C ₈ H ₁₀ N ₂ S)*	64808-55-5	N.D.	0.020
228	Perfluoropentanoic anhydride (PFPeAA)*	308-28-1	N.D.	0.020
229	Perfluoropentanoate (anion) (PFPeA (anion))*	45167-47-3	N.D.	0.010
230	Perfluorononanoic acid (PFNA)	375-95-1	N.D.	0.010
231	Sodium heptafluorononanoate (PFNA-Na)*	21049-39-8	N.D.	0.010
232	Potassium perfluorononanoate (PFNA-K)*	21049-38-7	N.D.	0.020
233	Lithium heptafluorononanoate (PFNA-Li)*	60871-92-3	N.D.	0.010
234	Silver perfluorononanoate (PFNA-Ag)*	7358-16-9	N.D.	0.020
235	Perfluorononanoate ammonium salt (PFNA-NH ₄)*	4149-60-4	N.D.	0.010
236	Cyclohexanaminium perfluorononanoate (PFNA-NH(C ₆ H ₁₂))*	328531-06-2	N.D.	0.010
237	Piperidinium perfluorononanoate (PFNA-NH(C ₅ H ₁₁))*	95682-66-9	N.D.	0.010

Test Report

Report No. A224064706010600101

Page 12 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
238	Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))*	77032-23-6	N.D.	0.010
239	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	N.D.	0.010
240	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	N.D.	0.010
241	Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)*	327176-80-7	N.D.	0.010
242	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	N.D.	0.010
243	4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)*	298703-33-0	N.D.	0.010
244	Perfluorononanoic anhydride (PFNAA)*	228407-54-3	N.D.	0.020
245	Perfluorononanoate (anion) (PFNA (anion))*	72007-68-2	N.D.	0.010
246	Perfluorodecanoic acid (PFDA)	335-76-2	N.D.	0.010
247	Sodium nonadecafluorodecanoate (PFDA-Na)*	3830-45-3	N.D.	0.010
248	Potassium perfluorodecanoate (PFDA-K)*	51604-85-4	N.D.	0.020
249	Lithium perfluorodecanoate (PFDA-Li)*	84743-32-8	N.D.	0.010
250	Silver perfluorodecanoate (PFDA-Ag)*	5784-82-7	N.D.	0.020
251	Perfluorodecanoate ammonium salt (APFDA)*	3108-42-7	N.D.	0.010
252	Perfluorodecanoic anhydride (PFDA)*	942199-24-8	N.D.	0.020
253	Perfluorodecanoate (anion) (PFDA (anion))*	73829-36-4	N.D.	0.010
254	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)	172155-07-6	N.D.	0.010
255	7H-Dodecafluoro heptane acid (HPFHpA)	1546-95-8	N.D.	0.010
256	Sodium 7H-perfluoroheptanoate (HPFHpA-Na)*	2264-25-7	N.D.	0.020
257	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)*	376-34-1	N.D.	0.010
258	7H-Perfluoroheptanoate (HPFHpA (anion))*	69681-35-2	N.D.	0.010
259	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H ₂ PFDA-P(C ₄ H ₉) ₄)	882489-14-7	N.D.	0.010
260	2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnA)	34598-33-9	N.D.	0.010
261	Potassium 3-(perfluorooctyl)propanoate (H ₄ PFUnA-K)*	83310-58-1	N.D.	0.020
262	Lithium 3-(perfluorooctyl)propanoate (H ₄ PFUnA-Li)*	67304-23-8	N.D.	0.010
263	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	N.D.	0.200
264	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	N.D.	0.200
265	1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6	N.D.	0.200
266	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	N.D.	0.200
267	1H,1H,2H,2H-Tetrahydroperfluorododecyl acrylate (10:2 FTA)	17741-60-5	N.D.	0.200
268	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO)	13252-13-6	N.D.	0.050
269	Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionate (HFPO-K)*	67118-55-2	N.D.	0.060

Test Report

Report No. A224064706010600101

Page 13 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
270	Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-Na)*	67963-75-1	N.D.	0.050
271	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, ammonium salt (HFPO-NH ₄)*	62037-80-3	N.D.	0.060
272	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride (HFPO-F)*	2062-98-8	N.D.	0.050
273	Triethylammonium perfluoro-2-propoxypropanoate (HFPO-(C ₂ H ₅) ₃ N)*	165951-18-8	N.D.	0.070
274	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid-N-propylpropan-1-amine (1/1) (HFPO-C ₆ H ₁₅ N)*	165951-17-7	N.D.	0.070
275	4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-C ₁₁ H ₁₂ N ₄ O ₃ S)*	298703-31-8	N.D.	0.100
276	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 ₃ NO ₂)*	2412106-69-3	N.D.	0.150
277	Perfluoro(2-propoxypropanoate) (HFPO (anion))*	122499-17-6	N.D.	0.050
278	(+)-Perfluoro(2-propoxypropionic) acid (HFPO(+))*	75579-39-4	N.D.	0.050
279	(-)-Perfluoro(2-propoxypropionic) acid (HFPO(-))*	75579-40-7	N.D.	0.050
280	Perfluorooctadecanoic acid (PFODA)	16517-11-6	N.D.	0.010
281	Perfluorooctadecanoate anion (PFODA (anion))*	798556-82-8	N.D.	0.010
282	Perfluoropalmitic acid (PFHxDA)	67905-19-5	N.D.	0.010
283	Hentriacontafluorohexadecanoate anion (PFHxDA (anion))*	1214264-30-8	N.D.	0.010
284	2H,2H-Perfluorodecanoate (H ₂ PFDA)	27854-31-5	N.D.	0.010
285	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	N.D.	0.200
286	N-Methyl perfluorooctanesulfonamidoacetic acid (N-Me-FOSAA)	2355-31-9	N.D.	0.050
287	Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)*	70281-93-5	N.D.	0.050
288	2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA (anion))*	909405-48-7	N.D.	0.050
289	N-ethyl-N-[(heptadecafluorooctyl)sulphonyl] glycine (N-Et-FOSAA)	2991-50-6	N.D.	0.050
290	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, potassium salt (N-Et-FOSAA-K)*	2991-51-7	N.D.	0.050
291	Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)*	3871-50-9	N.D.	0.050
292	Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)*	2991-52-8	N.D.	0.050
293	2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA (anion))*	909405-49-8	N.D.	0.050
294	1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 FTS)	757124-72-4	N.D.	0.200
295	1H,1H,2H,2H-Perfluorohexanesulfonic acid sodium (4:2 FTS-Na)*	27619-93-8	N.D.	0.200
296	4:2 Fluorotelomer sulfonate (4:2 FTS (anion))*	414911-30-1	N.D.	0.200

Test Report

Report No. A224064706010600101

Page 14 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
297	1H,1H,2H,2H-Perfluorododecanesulphonicacid (10:2 FTS)	120226-60-0	N.D.	0.200
298	1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)*	108026-35-3	N.D.	0.200
299	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	N.D.	0.010
300	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	N.D.	0.020
301	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	N.D.	0.010
302	11H-Perfluoroundecanoate (11H-PFUnDA (anion))*	69681-37-4	N.D.	0.010
303	Perfluorodecyl iodide (PFDI)	423-62-1	N.D.	0.200
304	Perfluorododecyl iodide (PFDol)	307-60-8	N.D.	0.200
305	1H,1H,2H,2H-perfluorododecyl iodide (10:2 FTI)	2043-54-1	N.D.	0.200
306	1H,1H,2H,2H-perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	N.D.	0.200
307	2-(Perfluorodecyl)ethyl methacrylate (10:2 FTMA)	2144-54-9	N.D.	0.200
308	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	N.D.	0.200
309	Glycine, N-[(heptadecafluorooctyl)sulfonyl]- (FOSAA)	2806-24-8	N.D.	0.010
310	N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)*	75260-69-4	N.D.	0.010
311	N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)*	115716-87-5	N.D.	0.010
312	N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA (anion))*	909405-47-6	N.D.	0.010
313	Perfluorononane sulfonic acid (PFNS)	68259-12-1	N.D.	0.010
314	Sodium Perfluoro-1-nonanesulfonate (PFNS-Na)*	98789-57-2	N.D.	0.010
315	Perfluorononanesulfonate potassium (PFNS-K)*	29359-39-5	N.D.	0.010
316	Ammonium perfluorononanesulfonate (PFNS-NH ₄)*	17202-41-4	N.D.	0.010
317	Perfluorononane sulfonate (anion) (PFNS (anion))*	474511-07-4	N.D.	0.010
318	1,1,2,2,3,3,4,4,4-Nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamide (N-Et-N-Me-FBSA)	34454-97-2	N.D.	0.200
319	1-Decene,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- (PFOE)	21652-58-4	N.D.	0.200
320	Perfluoroundecane sulfonic acid (PFUnS)	749786-16-1	N.D.	0.010
321	Sodium perfluoro-1-undecanesulfonate (PFUnS-Na)*	-	N.D.	0.010
322	Perfluoroundecanesulfonate (PFUnS(anion))*	441296-91-9	N.D.	0.010
323	Perfluorotridecanesulfonic acid (PFTrDS)	791563-89-8	N.D.	0.010
324	Sodium perfluorotridecanesulfonate (PFTrDS-Na)*	174675-49-1	N.D.	0.010
325	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro- (PFPe)	2706-91-4	N.D.	0.010
326	Sodium perfluoropentanesulfonate (PFPe-Na)*	630402-22-1	N.D.	0.020
327	Potassium perfluorohexane-1-sulphonate (PFPe-K)*	3872-25-1	N.D.	0.020
328	Lithium perfluoropentane sulfonate (PFPe-Li)*	1046864-81-6	N.D.	0.010
329	Ammonium perfluoropentanesulfonate (PFPe-NH ₄)*	68259-09-6	N.D.	0.010
330	Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate (PFPe-(CH ₂ CH ₂ OH) ₂ NH)*	70225-17-1	N.D.	0.020
331	Triethylammonium perfluoropentane sulfonate (PFPe-C ₆ H ₁₅ N)*	72033-42-2	N.D.	0.010

Test Report

Report No. A224064706010600101

Page 15 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
332	Perfluoropentane sulfonic anhydride (PFPeSA)*	161877-72-1	N.D.	0.020
333	Perfluoropentane sulfonate (anion) (PFPe (anion))*	175905-36-9	N.D.	0.010
334	1-Hexane-sulfonamide,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (FHxSA)	41997-13-1	N.D.	0.010
335	Perfluorododecane sulfonic acid (PFDoDs)	79780-39-5	N.D.	0.010
336	Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)*	1260224-54-1	N.D.	0.010
337	Potassium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-pentacosafuorododecane-1-sulphonate (PFDoDS-K)*	85187-17-3	N.D.	0.010
338	Perfluorododecanesulfonate (PFDoDS(anion))*	343629-43-6	N.D.	0.010
339	Perfluorooctylethyltrichlorosilane (FDTS)	78560-44-8	N.D.	0.200
340	Perfluorooctylethyltrimethoxysilane (FDTMOS)	83048-65-1	N.D.	0.200
341	Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	N.D.	0.200
342	N-methylperfluorohexanesulfonamide (MeFHxSA)	68259-15-4	N.D.	0.100
343	Pentadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-nonacosafuoro- (PFPeDA)	141074-63-7	N.D.	0.010
344	Nonacosafuoropentadecanoate (PFPeDA (anion))*	1214264-29-5	N.D.	0.010
345	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	N.D.	0.010
346	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	N.D.	0.010
347	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafuorododecyl dihydrogen phosphate (10:2 monoPAPS)	57678-05-4	N.D.	0.200
348	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafuorododecyl dihydrogen phosphate cyclohexylamine*	2514858-66-1	N.D.	0.200
349	Pentafluoropropionate acid (PFPrA)	422-64-0	N.D.	0.010
350	Sodium pentafluoropropionate (PFPrA-Na)*	378-77-8	N.D.	0.020
351	Potassium pentafluoropropionate (PFPrA-K)*	378-76-7	N.D.	0.020
352	Silver Pentafluoropropionate (PFPrA-Ag)*	509-09-1	N.D.	0.020
353	Ammonium pentafluoropropionate (PFPrA-NH ₄)*	2730-58-7	N.D.	0.010
354	(Perfluorohexyl)ethylene	25291-17-2	N.D.	0.200
355	Bis[2-(perfluorodecyl)ethyl] Phosphate (10:2 diPAP)	1895-26-7	N.D.	0.200
356	Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C ₄ H ₁₁ O ₂)*	57677-98-2	N.D.	0.200
357	2,2-dichloro-1,1,1-trifluoroethane (HCFC-123)	306-83-2	N.D.	0.200
358	1-chloro-1,2,2,2-tetrafluoroethane (HCFC-124)	2837-89-0	N.D.	0.200
359	Pentafluoroethane (HFC-125)	354-33-6	N.D.	0.200
360	Norflurane (HFC-134a)	811-97-2	N.D.	0.200
361	Perfluorobutylsulphonamide (FBSA)	30334-69-1	N.D.	0.010
362	Trifluoroacetic Acid (TFA)	76-05-1	N.D.	0.010
363	Sodium trifluoroacetate (TFA-Na)*	2923-18-4	N.D.	0.020
364	Potassium trifluoroacetate (TFA-K)*	2923-16-2	N.D.	0.020
365	Lithium Trifluoroacetate (TFA-Li)*	2923-17-3	N.D.	0.020
366	Mercury(II) trifluoroacetate (TFA-Hg)*	13257-51-7	N.D.	0.040
367	Cesium Trifluoroacetate (TFA-Cs)*	21907-50-6	N.D.	0.025
368	Thallium(III) trifluoroacetate (TFA-Tl)*	23586-53-0	N.D.	0.050

Test Report

Report No. A224064706010600101

Page 16 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
369	Palladium(II) trifluoroacetate (TFA-Pd)*	42196-31-6	N.D.	0.030
370	Silver trifluoroacetate (TFA-Ag)*	2966-50-9	N.D.	0.020
371	Ammoniumtrifluoroacetate (TFA-NH ₄)*	3336-58-1	N.D.	0.020
372	2,2,3,3,4,4,4-heptafluorobutyramide (FBAA)	662-50-0	N.D.	0.050
373	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	N.D.	0.010
374	Perfluoro-4-methoxybutanoic acid (PFMOBA)	863090-89-5	N.D.	0.010
375	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate (8:2 monoPAPS)	57678-03-2	N.D.	0.200
376	Sodium 1H,1H,2H,2H-perfluorodecyl phosphate (8:2 monoPAPS-Na)*	92678-93-8	N.D.	0.200
377	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	N.D.	0.010
378	2H-Perfluoro-2-octenoic acid (6:2) (6:2 FTUCA)	70887-88-6	N.D.	0.010
379	11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	N.D.	0.010
380	Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS-K)*	83329-89-9	N.D.	0.020
381	2h,2h,3h,3h-perfluorohexanoic acid (33FTA)	356-02-5	N.D.	0.010
382	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	N.D.	0.010
383	Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)*	2250081-67-3	N.D.	0.010
384	Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄)*	958445-44-8	N.D.	0.010
385	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	N.D.	0.010
386	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	N.D.	0.010
387	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	N.D.	0.010
388	Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS-K)*	73606-19-6	N.D.	0.020
389	Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF3ONS-NH ₄)*	1383434-28-3	N.D.	0.050
390	2,2,3,3-tetrafluoro-3-(trifluoromethoxy)propanoic acid (PFMPA)	377-73-1	N.D.	0.010
391	Perfluorodecylphosphonic acid (PFDPA)	52299-26-0	N.D.	0.010
392	Perfluoro-3,6-dioxaheptanoic acid (PF-3,6-DOHA)	151772-58-6	N.D.	0.010
393	2H,2H-Perfluorododecanoic acid (10:2FTCA)	53826-13-4	N.D.	0.010
394	3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	N.D.	0.200
395	Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	N.D.	0.200
396	Perfluorotributylamine (PFTBA)	311-89-7	N.D.	0.200
397	Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	N.D.	0.200
398	2,2,3,3,4,4,4-heptafluoro-1-butanol (PFBOH)	375-01-9	N.D.	0.200
399	1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	N.D.	0.200
400	1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	N.D.	0.200
401	Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	N.D.	0.200
402	1-Bromoperfluorohexane (PFHBr)	335-56-8	N.D.	0.200
403	1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	N.D.	0.200

Test Report

Report No. A224064706010600101

Page 17 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
404	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl) iodoacetamide (N-PFNIETa)	852527-50-5	N.D.	0.200
405	Perfluorooctane (PFOct)	307-34-6	N.D.	0.200
406	Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silane (TMTFSI)	85857-16-5	N.D.	0.200
407	2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	N.D.	0.200
408	3-Perfluoroethyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	N.D.	0.200
409	1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	N.D.	0.200
410	Alcohols, C8-14, gamma-omega-perfluoro (C8-14-PFEtOH)	68391-08-2	N.D.	0.200
411	Tridecafluoroheptanamide (TPFHpA)	2358-22-7	N.D.	0.200
412	1-(Perfluoroethyl)-2-iodopropane (PFNI)	38550-34-4	N.D.	0.200
413	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTh)	26650-09-9	N.D.	0.200
414	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3	N.D.	0.200
415	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8	N.D.	0.200
416	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1	N.D.	0.200
417	Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2	N.D.	0.200
418	3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1	N.D.	0.200
419	1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6	N.D.	0.200
420	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0	N.D.	0.200
421	1H,1H,2H,2H-Perfluorodecyl acetate (8:2FTOAc)	37858-04-1	N.D.	0.200
422	2-(Perfluoroethyl)ethyltris(1-methylethoxy)silane (PFETMSI)	1240203-07-9	N.D.	0.200
423	Bis(1,1,2,2,3,3,4,4,4-nonafluoro-1-butaneulfonyl)imide (BIS-PFBSI)	39847-39-7	N.D.	0.010
424	Carboxymethyldimethyl-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3	N.D.	0.010
425	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide (N-oxideN-diPTFOP-N-oxide)	80475-32-7	N.D.	0.010
426	2,2-difluoro-2-(trifluoromethoxy)acetic acid (PFMOAA)	674-13-5	N.D.	0.010
427	Bis[2-[N-ethyl(heptadecafluorooctanesulphonyl)amino]ethyl]hydrogen phosphate (EtFOSEdiPAPs)	2965-52-8	N.D.	0.050
428	2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	N.D.	0.010
429	Perfluoroethyl ethylphosphonic acid (Cheminox FHP 2OH(PFHEPA))	252237-40-4	N.D.	0.010

Test Report

Report No. A224064706010600101

Page 18 of 19

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
430	Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP 2OH-Na(PFHEPA-Na))*	1189052-95-6	N.D.	0.010
431	1-Octanol,3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,1-(dihydrogen phosphate) (6:2monoPAPs)	57678-01-0	N.D.	0.010
432	Diammonium 6:2 fluorotelomer phosphate monoester (6:2monoPAPs-NH ₄ NH ₄)*	1000852-37-8	N.D.	0.010
433	Perfluoro-3,6-dioxaoctanoic acid (PF-3,6-DOOA)	80153-82-8	N.D.	0.010
434	Perfluoro-3,6-dioxa-4-methyl-7-octenesulfonic acid (PFESA BP1)	29311-67-9	N.D.	0.010
435	7H-Perfluoro-4-methyl-3,6-dioxaoctanesulfonic acid (PFESA BP2)	749836-20-2	N.D.	0.010

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- *The test result of the substance is converted from the test result of certain compound.

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black foam

Note:

- According to the client's statement for company relations, the test result(s) of this report is/are presented in reference to the result(s) that reported in A2240647060106001.

Test Report

Report No. A224064706010600101

Page 19 of 19

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 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 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***