



Test Report Number: CANPC25005105112 (PFAS)

Date: March 20, 2025

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Customer Name: Zhongshan Hongda Plastics Technology Co., Ltd.

Customer Address: Minle Industrial Zone, Minle Village, Dongfeng Town, Zhongshan City (Opposite No. 65, Tongan Avenue East)

Sample Name: PVC plastic granules
Customer Reference Information: 105V-CMR-UV-MT Matte Black, White, 105y, etc.

The above sample and information were provided by the customer.

SGS Work Number: GZPC2503001455
Sample receipt date: March 13, 2025
Testing cycle: March 13, 2025 – March 20, 2025
Testing requirements: Testing according to customer requirements
See subsequent pages.
Testing method: Testing results: See subsequent pages.

Summarize:

Content of 545 perfluorinated and polyfluoroalkyl compounds (PFAS)	See test results
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Guangzhou Branch of SGS-CSTC Standards Technical Services Co., Ltd.

Authorized Signature

Jessie-JX Li (jyy)

Approving signatory

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

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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(PFAS)

Samples tested:

Description of the appearance of the inspection component:

Sample number	SGS Sample ID	Sample Description
SN1	001+002+00 5	CAN25-0051051-0004 Black plastic granules + White plastic granules + Brown plastic granules

545 perfluorinated and polyfluoroalkyl compounds (PFAS) content

Detection method:

Optimized versions of EN 17681-1:2022 and EN 17681-2:2022 were analyzed using LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Analysis:

Test results: (Substances listed in the PFAS list)

Substance Name	CAS No.	001+002+005 Concentration (mg/kg)	MDL (mg/kg)
PFAS in all testing lists	.	ND	.

Remark:

(1) The table above only shows the detected PFAS and does not report PFAS below MDL. For a complete list of tested PFAS, please refer to the appendix.

(2) MDL = Method Detection Limit

ND = Not Detected (below MDL)

(3) Disable the target PFAS based on the client's testing requirements. If a PFAS is detected, it is recommended to refer to relevant regulations to confirm the corresponding requirements for the PFAS. beg.

(4) ^= substances refer to the salts/derivatives listed in the appendix.

(5) The conclusions apply only to the list of substances in the report.

Note: The sample testing was conducted based on the applicant's request for mixed testing. The mixed testing results in the report do not represent the content of any individual material.

The test data is for reference only.

Unless otherwise stated, compliance determination shall be performed using the simple acceptance (w=0) binary decision rule, referring to ILAC-G8:09/2019.

Unless otherwise stated, the results of this report are valid only for the tested sample. This report may not be reproduced in any form without the written permission of this company.

The test report is for internal reference only and is intended for clients' scientific research, teaching, internal quality control, product development, and other purposes.



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

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appendix:

1. Appendix: List of PFAS and their salts and derivatives

Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
1	PFOS, and its Salts & Derivatives	Perfluorooctane sulfonic acid	1763-23-1	0.010
2		(PFOS), potassium perfluorooctane	2795-39-3	-
3		sulfonate (PFOS-K), lithium perfluorooctane	29457-72-5	-
4		sulfonate (PFOS-Li), sodium perfluorooctane	4021-47-0	-
5		sulfonate (PFOS-Na), ammonium	29081-56-9	-
6		perfluorooctane sulfonate (PFOS-NH ₄), diethanolammonium	70225-14-8	-
7		perfluorooctane sulfonate (PFOS-NH ₂ (C ₂ H ₄ OH) ₂),	56773-42-3	-
8		tetraethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₄), disaccharide dimethylammonium		-
9		perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂),	111873-33-7	-
10		tetrabutylammonium perfluorooctane	307-35-7	-
11		sulfonate (PFOS-N(C ₄ H ₉) ₄), perfluorooctane sulfonyl	91036-71-4	-
12		fluoride (PFOS-F), magnesium	71463-74-6	-
13		bis[heptadecyl octane	45298-90-6	-
14		sulfonate] (PFOS-Mg). Piperidine perfluorooctane sulfonate,	54439-46-2	-
15		triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃), tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5	-
16		N,N,N-Tripropylpentane-1-heptafluorooctane-1-sulfonate ammonium (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9	-
17		N,N-Dibutyl-N-methylbutane-1-amineheptafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) bis[4-(1,1-	124472-68-0	-
18		dimethylethyl)phenyl]-iodonium with perfluoro-1-octanesulfonic acid The salt (1:1)	213740-80-8	-
19		of perfluoro-1-octanesulfonate diphenyl(2,4,6-trimethylphenyl)sulfonate	258341-99-0	-
20		perfluoro-1-octanesulfonate 1-hexadecylpyridinium	334529-63-4	-
21		N,N,N-Triethyldecyl-1-amine heptafluorooctane-1-sulfonate	773895-92-4	-
22		tetrabutylphosphonium perfluorooctanesulfonate (PFOS-P	2185049-59-4	-
23		(C ₄ H ₉) ₄) diethylamine perfluorooctanesulfonate (PFOS-	2205029-08-7	-
24		C ₄ H ₁₁ N) heptyldimethyl-[2-(2-methylprop-2-enoyloxy)] [Ethyl]amine (PFOS-C ₁₅ H ₃₀ N ₂)	1203998-97-3	-
25		Perfluorooctyl sulfonic anhydride (PFOSAN)	423-92-7	-
26	FOSAA, and Its salt	N-(perfluoro-1-octanesulfonyl)glycine (FOSAA),	2806-24-8	0.010
27		perfluorooctanesulfonylaminoacetate (FOSAA(anion)), potassium	909405-47-6	-
28		perfluorooctanesulfonylaminoacetate (FOSAA-K), sodium	75260-69-4	-
29		perfluorooctanesulfonylaminoacetate (FOSAA-Na)	115716-87-5	-
30	N- MeFOSAA and its salts	N-Methyl-N-(perfluoro-1-octanesulfonyl)glycine (N-MeFOSAA)	2355-31-9	0.010
31		N-(heptafluorooctylsulfonyl)-N-methylglycinate (N-Me-FOSAA(anion))	909405-48-7	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
32		N-(heptafluorooctylsulfonyl)-N-methylglycinate potassium (N-Me-FOSAA-K)	70281-93-5	-
33	N-EtFOSAA and its salts	N-Ethyl-N-(perfluoro-1-octanesulfonyl)glycine (N-EtFOSAA)	2991-50-6	0.010
34		N-Ethyl-N-[(heptadecylfluorooctyl)sulfonyl]-glycine potassium salt (N-Et-FOSAA-K)	2991-51-7	-
35		N-Ethyl-N-[(heptadecylfluorooctyl)sulfonyl]glycine salt (N-Et-FOSAA(anion))	909405-49-8	-
36		N-Ethyl-N-[(heptadecylfluorooctyl)sulfonyl]glycine ammonium (N-Et-FOSAA-NH4)	2991-52-8	-
37		Sodium N-ethyl-N-[(heptadecylfluorooctyl)sulfonyl]glycine (N-Et-FOSAA-Na)	3871-50-9	-
38	-	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	4151-50-2	0.010
39	-	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	31506-32-8	0.010
40	-	2-(N-Ethylperfluorooctylsulfonamide)ethanol (N-EtFOSE)	1691-99-2	0.010
41	-	2-(N-Methylperfluorooctylsulfonamide)ethanol (N-MeFOSE)	24448-09-7	0.010
42	PFOSA, and its salt	Perfluorooctylsulfonamide (PFOSA)	754-91-6	0.010
43		Lithium perfluorooctylsulfonamide (1:1) (PFOSA-Li) Sodium	76752-79-9	-
44		perfluorooctylsulfonamide (1:1) (PFOSA-Na) Potassium	76752-78-8	-
45		perfluorooctylsulfonamide (1:1) (PFOSA-K) Ammonium	76752-70-0	-
46		perfluorooctylsulfonamide (1:1) (PFOSA-NH4) Triethylamine	76752-72-2	-
47		perfluorooctylsulfonamide (PFOSA -C6H15N) Perfluorooctanoic	76752-82-4	-
48	PFOA, and its Salts & Derivatives	acid (PFOA) Sodium	335-67-1	0.010
49		perfluorooctanoate (PFOA-Na)	335-95-5	-
50		Potassium perfluorooctanoate	2395-00-8	-
51		(PFOA-K) Silver perfluorooctanoate	335-93-3	-
52		(PFOA-Ag) Perfluorooctanoyl	335-66-0	-
53		fluoride (PFOA-F) Ammonium	3825-26-1	-
54		perfluorooctanoate (APFO) Lithium	17125-58-5	-
55		perfluorooctanoate (PFOA-Li) Cobalt	35965-01-6	-
56		perfluorooctanoate (PFOA-Co)	17125-60-9	-
57		Cesium perfluorooctanoate (PFOA-Cs) Chromium	68141-02-6	-
58		perfluorooctanoate (3+) (PFOA-Cr(3+)) Perfluorooctanoic acid-	423-52-9	-
59		piperazine (2:1)	45285-51-6	-
60		(PFOA-NH(C4H10N)) Perfluorooctanoate Perfluorooctanoic anhydride	33496-48-9	-
61		Tetraethylamine perfluorooctanoate	98241-25-9	-
62		and tetramethylamine perfluorooctanoate	32609-65-7	-
63		Tetrapropylamine perfluorooctanoate	277749-00-5	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
64		Potassium perfluorooctanoate hydrate (PFOA-K(H ₂ O) ₂) ,	98065-31-7	-
65		ethylamine perfluorooctanoate (PFOA-C ₂ H ₇ N) ,	1376936-03-6	-
66		pyridine perfluorooctanoate (PFOA-C ₅ H ₅ N) ,	95658-47-2	-
67		phenylpiperazine perfluorooctanoate (PFOA-C ₁₀ H ₁₄ N ₂) ,	1514-68-7	-
68		octyltrimethylammonium perfluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6	-
69	8:2 FTS, and its salt	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010
70		1H,1H,2H,2H-Perfluorodecylsulfonate potassium (8:2 FTS-K)	438237-73-1	-
71		1H,1H,2H,2H-ammonium perfluorodecylsulfonate (8:2 FTS-NH ₄)	149724-40-3	-
72		1H,1H,2H,2H-Sodium perfluorodecylsulfonate (8:2 FTS-Na)	27619-96-1	-
73		1H,1H,2H,2H-Perfluorodecylsulfonate (8:2 FTS(anion)) Methyl	481071-78-7	-
74	-	perfluorooctanoate (Me-PFOA) Ethyl	376-27-2	0.200
75	-	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)* Perfluorooctyl	1996-88-9	0.100
78	-	iodide (PFOI)	507-63-1	0.200
79	8:2 FTCA, and its salts	2H,2H-perfluorodecanoic acid (8:2 FTCA)	27854-31-5	0.010
80		Tetrabutylphosphine 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) 1-	678-39-7	0.100
82	-	Iodo-1H,1H,2H,2H-Perfluorodecane (8:2 FTOH)*	2043-53-0	0.100
83	-	1H,1H,2H,2H-perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)* Bis[2-	101947-16-4	0.100
84	8:2diPAP, and its salt	(perfluorooctyl)ethyl phosphate (8:2 diPAP) Sodium bis[2-	678-41-1	0.010
85		(perfluorooctyl)ethyl phosphate (8:2 diPAP-Na) Bis[2-	114519-85-6	-
86		hydroxyethyl)ammonium bis(perfluorooctyl)ethyl)hydrogen	57677-97-1	-
87		bis[2-(perfluorooctyl)ethyl phosphate ammonium salt (8:2 diPAP-NH ₄) 8:2	93776-20-6	-
88		Fluoropolymer phosphate diester ion	1411713-91-1	-
89	8:3 FTCA, and its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	0.010
90		2H,2H,3H,3H-potassium perfluoroundecanoate (8:3 FTCA-K)	83310-58-1	-
91		2H,2H,3H,3H-Lithium perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8	-
92	-	Perfluorooctylethylene (PFDE)* 3-	21652-58-4	0.100
93	-	Perfluoroheptylpropionic 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) 6:8	70887-84-2	0.010
97	-	Perfluorophosphonic acid (6:8 PFPI)	610800-34-5	0.010
98	-	8:8 Perfluorophosphonic acid (8:8 PFPI)	40143-79-1	0.010



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99	8:8 PFPI, and Its salt	8:8 Sodium perfluorophosphinate (8:8 PFPI-Na)	500776-69-2	-
100		8:8 Erbium perfluorophosphinate (8:8 PFPI-Er) 8:8	500776-70-5	-
101		Ytterbium perfluorophosphinate (8:8 PFPI-Yb)	500776-71-6	-
102	-	1H,1H,2H,2H-Perfluorododecyl acetate (8:2 FTOAc)* Mono[2-	37858-04-1	0.100
103	8:2 monoPAP, and Its salt	(perfluorooctyl)ethyl]phosphate (8:2 monoPAP) 8:2 Fluoropolymer	57678-03-2	0.100
104		diammonium phosphate 8:2	93857-44-4	-
105		Fluoropolymer sodium phosphate	438237-75-3	-
106		bis[2-(perfluorooctyl)ethyl]ammonium phosphate	1764-95-0	-
107		mono[2-(perfluorooctyl)ethyl]ammonium	92401-44-0	-
108		phosphate mono[2-(perfluorooctyl)ethyl]sodium	144965-22-0	-
109		phosphate mono[2-(perfluorooctyl)ethyl]potassium	150033-28-6	-
110		phosphate mono[2-(perfluorooctyl)ethyl]ammonium	2353-52-8	-
111	PFNA, and its Salt	hydrogen phosphate	375-95-1	0.010
112		perfluoronanoic acid (PFNA)	21049-39-8	-
113		Sodium perfluoronanoate (PFNA-	4149-60-4	-
114		Na) Ammonium perfluoronanoate	21049-38-7	-
115		(PFNA-NH4) Potassium	60871-92-3	-
116		perfluoronanoate (PFNA-K)	7358-16-9	-
117		Lithium perfluoronanoate (PFNA-Li) Silver	77032-23-6	-
118		perfluoronanoate (PFNA-Ag) Perfluoronanoic acid methane ammonium	77032-27-0	-
119		(PFNA-NH3(CH3)) perfluoronanoic acid-N-ethylethylamine (1:1) (PFNA-	77032-24-7	-
120		NH2(C2H5)2) perfluoronanoic acid-N-methylmethylamine (1:1) (PFNA-NH2(CH3)2) perfluoronanoic acid-N,N-diethylacetamide (1:1) (9CI) (PFNA-	327176-80-7	-
121		Perfluoronanoic acid-piperidine (1:1) (9CI) (PFNA-NH2(C5H10))	95682-66-9	-
122		Perfluoronanoic acid-aniline (1:1) (PFNA-NH3(C6H5))	95682-67-0	-
123		Perfluoronanoic acid-cyclohexylamine (1:1) (9CI) ((PFNA-NH3(C6H11))	328531-06-2	-
124	Perfluoronanoate	72007-68-2	-	
125	Perfluoronanoic acid sulfamethoxy pyridazine (PFNA-C11H12N4O3S)	298703-33-0	-	
126	Perfluoronanoic anhydride	228407-54-3	-	
127	PFDA, and its Salt	(PFNAA) Perfluorodecanoic	335-76-2	0.010
128		acid (PFDA) Sodium perfluorodecanoate	3830-45-3	-
129		(PFDA-Na) Ammonium	3108-42-7	-
130		perfluorodecanoate (PFDA-NH4)	51604-85-4	-
131		Potassium perfluorodecanoate (PFDA-	5784-82-7	-
132		K) Silver perfluorodecanoate (PFDA-	84743-32-8	-
133		Ag) Lithium perfluorodecanoate (PFDA-Li) Perfluorodecanoate	73829-36-4	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
134		Perfluorodecanoic anhydride	942199-24-8	-
135	PFUnDA, and its salt	(PFDA), perfluoroundecanoic acid	2058-94-8	0.010
136		(PFUnDA), sodium perfluoroundecanoate	60871-96-7	-
137		(PFUnDA-Na), ammonium perfluoroundecanoate	4234-23-5	-
138		(PFUnDA-NH ₄), potassium perfluoroundecanoate	30377-53-8	-
139		(PFUnDA-K), calcium perfluoroundecanoate	97163-17-2	-
140		(PFUnDA-Ca),	196859-54-8	-
141	PFDoDA, and its salt	perfluoroundecanoate,	307-55-1	0.010
142		perfluorododecanoic acid (PFDoDA),	3793-74-6	-
143		perfluorododecanoic acid	171978-95-3	-
144	PFTrDA, and its salt	(PFDoDA-NH ₄), perfluorododecanoate,	72629-94-8	0.010
145		perfluorotridecanoic acid (PFTrDA), ammonium	4288-72-6	-
146		perfluorotridecanoate (PFTrDA-NH ₄), sodium	60872-01-7	-
147		perfluorotridecanoate	862374-87-6	-
148	PFTrDA, and its salt	(PFTrDA-Na), perfluorotridecanoate,	376-06-7	0.010
149		perfluorotetradecanoic	365971-87-5	-
150	-	acid (PFTDA), perfluorotetradecanoate, perfluoro-3,7-	172155-07-6	0.010
151	PFDS, and its Salt	dimethyloctanoic acid (PF-3,7-	335-77-3	0.010
152		DMOA), perfluorodecanesulfonic acid	2806-15-7	-
153		(PFDS), sodium perfluorodecanesulfonate	2806-16-8	-
154		(PFDS-Na), potassium perfluorodecanesulfonate	67906-42-7	-
155		(PFDS-K) Ammonium	126105-34-8	-
156		perfluorodecyl sulfonate (PFDS-NH ₄), perfluorodecyl sulfonate, perfluorodecane sulfonic anhydride (PFDSA)	51667-62-8	-
157	-	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
158	-	1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)* 2-	17741-60-5	0.100
159	-	(Perfluorodecyl)ethyl methacrylate (10:2 FTMA)* 1,1,2,2-	2144-54-9	0.100
160	-	Tetrahydroperfluoro-1-tetradecyl alcohol (12:2 FTOH)	39239-77-5	0.100
161	10:2 FTS, and its salt	1H,1H,2H,2H-Perfluorododecanesulfonic acid (10:2 FTS)	120226-60-0	0.010
162		1H,1H,2H,2H-Sodium perfluorododecanesulfonate (10:2 FTS-Na)	108026-35-3	-
163	-	Perfluorodecylethyl iodide (10:2 FTI)*	2043-54-1	0.100
164	-	1H,1H,2H,2H-Perfluorotetracyclic iodide (12:2 FTI)* Perfluorononane	30046-31-2	0.100
165	PFNS, and its Salt	sulfonic acid (PFNS) Sodium	68259-12-1	0.010
166		perfluorononane sulfonate (PFNS-Na)	98789-57-2	-
167		Ammonium perfluorononane sulfonate (PFNS-	17202-41-4	-
168		NH ₄) Potassium perfluorononane sulfonate	29359-39-5	-
169		(PFNS-K) Perfluorononane sulfonate	474511-07-4	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
170	PFUnDS, and Its salt	Perfluoroundecanesulfonic acid	749786-16-1	0.010
171		(PFUnDS),	441296-91-9	-
172	PFDoDS, and Its salt	Perfluoroundecanesulfonate,	79780-39-5	0.010
173		Perfluorododecanesulfonic acid (PFDoDS),	1260224-54-1	-
174		Sodium perfluorododecanesulfonate (PFDoDS-	85187-17-3	-
175		Na), Potassium	343629-43-6	-
176	PFTrDS, and Its salt	perfluorododecanesulfonate (PFDoDS-	791563-89-8	0.010
177		K), Perfluorododecanesulfonate,	174675-49-1	-
178	10:2 diPAP, and its salts	Perfluorotridecanesulfonic acid (PFTrDS), Sodium	1895-26-7	0.100
179		perfluorotridecanesulfonate (PFTrDS-Na), Bis[2-(perfluorodecyl)ethyl]phosphate (10:2 diPAP), 2,2'-Iminediethanol bis[2-(perfluorodecyl)ethyl]phosphate (10:2 diPAP-C4H11O2)	57677-98-2	-
180	-	1-Perfluorodecane iododiae	423-62-1	0.100
181	-	(PFDI)* Perfluorododecane iododiae (PFDoDI)*	307-60-8	0.100
182	-	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA) 2-	70887-94-4	0.010
183	-	Perfluorodecylacetic acid (10:2 FTCA)	53826-13-4	0.010
184	-	1H,1H,2H,2H-Perfluorodecyl acetate (10:2 FTOAc)* Perfluorohexyl	37858-05-2	0.100
185	PFHxS, and its Salts & Derivatives	sulfonic acid (PFHxS) Sodium	355-46-4	0.010
186		perfluorohexyl sulfonate (PFHxS-Na)	82382-12-5	-
187		Potassium perfluorohexyl sulfonate (PFHxS-	3871-99-6	-
188		K) Lithium perfluorohexyl sulfonate (1:1) (PFHxS-	55120-77-9	-
189		Li) Ammonium perfluorohexyl sulfonate (PFHxS-	68259-08-5	-
190		NH4) Triphenyl(phenylmethyl)-phosphonium salt of perfluorohexyl sulfonic acid (PFHxS- BTPP)	1000597-52-3	-
191		N,N,N-Tributylbutane-1-amine perfluorohexyl sulfonate (PFHxS- N(C4H9)4)	108427-54-9	-
192		N,N,N-Triethylethylamine perfluorohexyl sulfonate (PFHxS- N(C2H5)4)	108427-55-0	-
193		Perfluorohexylsulfonic acid and tetrahydropyrrole complex (PFHxS-	1187817-57-7	-
194		NC4H9) Perfluoro-1-hexylsulfonic acid -N-[4-[[4-(diethylamino)phenyl][4-(ethyl [amino]-1-naphthyl)methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl- ethylammonium salt (PFHxS-(NC10H14)3C5H4)	1310480-24-0	-
195		Perfluoro-1-hexylsulfonic acid-N-[4-[[4-(dimethylamino)phenyl][4-(ethyl [amino]-1-naphthyl)methylene]-2,5-cyclohexadien-1-methylene]-N-methyl- methylammonium salt (PFHxS-(NC8H10)2C13H12)	1310480-27-3	-
196		Perfluoro-1-hexylsulfonic acid-N-[4-[[4-(dimethylamino)phenyl][4-(phenyl) [amino]-1-naphthyl)methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl- methylammonium salt (PFHxS-(NC8H10)2C17H12)	1310480-28-4	-
197		Perfluorohexylsulfonic acid and γ-cyclodextrin complex (PFHxS-C42H70O35) 1329995-45-0		-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
198		Perfluorohexyl sulfonic acid complex with β -cyclodextrin (PFHxS-C48H80O40) 1329995-69-8	1329995-69-8	-
199		Triphenylthionium salt of perfluorohexyl sulfonic acid (TPS-	144116-10-9	-
200		PFHxS) Quinoline perfluorohexyl sulfonic acid, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenyl) [Thienyl]phenyl]-1,2,3a,4,8b-hexahydrocyclopentano[b]indol-7-yl]ethyl [Alkenyl] salt (PFHxS-C44H37N2O2)	1462414-59-0	-
201		Diphenyliodonium perfluorohexylsulfonate (PFHxS-I(C6H5)2)	153443-35-7	-
202		N,N,N-Trimethyl-Perfluorohexylsulfonic acid methyl ammonium salt (PFHxS-TMA)	189274-31-5	-
203		Perfluorohexylsulfonic acid and 2-methyl-2-propylamine complex (1:1) (PFHxS-NH2(CH3)3)	202189-84-2	-
204		Perfluorohexylsulfonic acid bis[4-(1,1-dimethylethyl)phenyl]iodonium salt (PFHxS-I(C6H4)2(C4H9)2)	213740-81-9	-
205		Gallium perfluorohexyl sulfonate (9Cl)(PFHxS-Ga)	341035-71-0	-
206		Bis(4-methylphenyl)phenylthionium salt of perfluorohexyl sulfonate (1:1)(PFHxS-S(C7H7)2C6H5)	341548-85-4	-
207		Scandium perfluorohexyl sulfonate (PFHxS-	350836-93-0	-
208		Sc), Neodymium perfluorohexyl sulfonate	41184-65-0	-
209		(PFHxS-Nd), Yttrium perfluorohexyl sulfonate	41242-12-0	-
210		(PFHxS-Y), Perfluorohexyl sulfonic acid (thiodi-4,1-phenylene) bis[diphenyl]thionium salt (PFHxS-S3(C6H5)4(C6H4)2)	421555-73-9	-
211		bis[4-(1,1-dimethylpropyl)phenyl]iodonium perfluorohexylsulfonate (PFHxS-I(C6H4)2(C5H11)2)	421555-74-0	-
212		Perfluorohexylsulfonyl fluoride (PFHxS-F)	423-50-7	-
213		is a tri[4-(1,1-dimethylethyl)phenyl]thionium salt of perfluorohexylsulfonic acid. (PFHxS-S(C6H4)3(C4H9)3)	425670-70-8	-
214		Zinc perfluorohexyl sulfonate (PFHxS-Zn)	70136-72-0	-
215		Perfluorohexyl sulfonic acid complex with 2,2'-imine diethanol (PFHxS-NH(C2H5O)2)	70225-16-0	-
216		Perfluorohexylsulfonic acid and triethylamine complex (1:1) (PFHxS-N(C2H5)3) 72033-41-1	72033-41-1	-
217		Perfluorohexylsulfonic acid bis[(1,1-dimethylethyl)phenyl]iodonium salt (PFHxS-I(C6H4)2(C4H9)2)	866621-50-3	-
218		Perfluorohexylsulfonic acid (4-methylphenyl) diphenylthionium salt (PFHxS-S(C6H5)2C7H7)	910606-39-2	-
219		Perfluorohexylsulfonic acid [4-[(2-methyl-1-oxo-2-acryloyl)oxy]phenyl] Diphenylthionium salt (PFHxS-S(C6H5)2C10H9O2)	911027-68-4	-
220		Cesium perfluorohexylsulfonate (1:1)(PFHxS-Cs)	92011-17-1	-
221		dibenzo[k,n][1,4,7,13]tetraoxathiocyclopentadiene,19-[4-(1,1-di [Methylethyl)phenyl]-6,7,9,10,12,13-hexahydro-,perfluorohexylsulfonic acid Salt (PFHxS-SC28H31O4)	928049-42-7	-



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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t (86-20) 82155555 sgs.china@sgs.com

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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
222		Perfluorohexylsulfonate (PFHxS-Cl)	55591-23-6	-
223		PFHxS-sulfonate polymer	911027-69-5	-
224		perfluorohexyl sulfonate	108427-53-8	-
225		tetrabutylphosphonium perfluorohexyl sulfonate (PFHxS-P(C4H9)4)	2310194-12-6	-
226	-	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010
227	-	Perfluorohexanesulfonamide (PFHxSA)	41997-13-1	0.010
228	-	N-[3-(dimethylamino)propyl]tridecylfluorohexanesulfonamide (N-AP-FHxSA) 2-	50598-28-2	0.010
229	-	[methyl[(tridecylfluorohexyl)sulfonyl]amino]ethyl acrylate (N-MeFHSEA) 2-	67584-57-0	0.200
230	-	[Methyl[(tridecylfluorohexyl)sulfonyl]amino]ethyl methacrylate 67584-61-6 2-		0.200
231	-	[Ethyl[(tridecylfluorohexyl)sulfonyl]amino]ethyl methacrylate 67906-70-1 Tridecylfluoro-N-(2-hydroxyethyl)-		0.200
232	-	N-methylhexanesulfonamide (MeFHxSE)	68555-75-9	0.010
233	EtFHxSAAy and its salt	N-Ethyl-N-[(tridecylfluorohexyl)sulfonyl]glycine (EtFHxSAA)	68957-32-4	0.010
234		N-Ethyl-N-[(tridecylfluorohexyl)sulfonyl]glycine potassium (EtFHxSAA-K)	67584-53-6	-
235		Sodium N-ethyl-N-[(tridecylfluorohexyl)sulfonyl]glycine (EtFHxSAA-Na)	68555-70-4	-
236	PFHxA, and its Salts & Derivatives	Perfluorohexanoic acid (PFHxA)	307-24-4	0.010
237		Ammonium perfluorohexanoate	21615-47-4	-
238		(APFHx) Sodium perfluorohexanoate	2923-26-4	-
239		(PFHxA-Na) Potassium perfluorohexanoate	3109-94-2	-
240		(PFHxA-K) Perfluorohexanoyl fluoride	355-38-4	-
241		(PFHxA-F) Silver perfluorohexanoate	336-02-7	-
242		(PFHxA-Ag) Lithium perfluorohexanoate	90430-61-8	-
243		(PFHxA-Li)	308-13-4	-
244		Perfluorohexanoic anhydride	423-47-2	-
245		Piperazine	92612-52-7	-
246		perfluorohexanoate (2:1)	335-53-5	-
247		Perfluorohexanoate Perfluorohexanoyl chloride (PFHxA-Cl)	565225-91-4	-
248		Hexylamine perfluorohexanoate (PFHxA-C6H15N) Phenylpiperazine perfluorohexanoate (PFHxA-C10H14N2)	98560-4	-
249		-	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
250	-	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.400
251	-	1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA)	17527-29-6	0.200
252	6:2 FTS, and Its salt	1H,1H,2H,2H-Perfluorooctanoic acid (6:2 FTS)	27619-97-2	0.010
253		1H,1H,2H,2H-Sodium perfluorooctane sulfonate (6:2 FTS-Na)	27619-94-9	-
254		1H,1H,2H,2H-Perfluorooctane sulfonate potassium (6:2 FTS-K)	59587-38-1	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
255		1H,1H,2H,2H-Ammonium perfluorooctane sulfonate (6:2 FTS-NH4)	59587-39-2	-
256		1H,1H,2H,2H-Barium perfluorooctanoate (6:2 FTS-Ba)	1807944-82-6	-
257		1H,1H,2H,2H-Perfluorooctylsulfonate (6:2FTS(anion))	425670-75-3	-
258	-	Perfluorooctyltriethoxysilane (6:2FTSi(OC2H5)3)	51851-37-7	0.500
259	-	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.200
260	-	1H,1H,2H,2H-perfluorooctyltrimethoxysilane (6:2) FTSi(OCH3)3)	85857-16-5	
261	-	1,1,1,2,2,3,4,5,6,6-Trifluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
262	-	1,1,1,2,2,3,4,5,6,6-Trifluoro-8-iodophenone	38550-34-4	0.200
263	-	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tetrazolium Fluorooctane sulfonamide N-oxide	80475-32-7	0.100
264	-	3,3,4,4,5,5,6,7,8,8-trifluorooctyl thiocyanate 6:2	26650-09-9	0.200
265	6:2 monoPAP, and its salts	fluorophosphate monoester (6:2 monoPAP) 6:2	57678-01-0	0.100
266		fluorophosphate diammonium salt (6:2 monoPAP-NH4NH4)	1000852-37-8	-
267	-	2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
268	-	3,3,4,4,5,6,7,7,8,8,8-Trifluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
269	-	1H,1H,2H,2H-perfluorooctyldimethylchlorosilane (6:2) FTSiMe2Cl)	102488-47-1	0.200
270	-	1H,1H-trifluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
271	-	4,4,5,5,6,7,8,9,9,9-trifluorononyl iodide (6:3 FTI)	89889-20-3	0.200
272	6:2 FTPA, and its salt	Perfluorohexylethylphosphonic acid (6:2	252237-40-4	0.100
273		FTPA) Sodium perfluoroalkylphosphonate (Cheminox FHP2OH-) Na(PFHEPA-Na))	1189052-95-6	-
274	-	Undecylhexane-1-ol (5:1 FTOH)	423-46-1	0.200
275	-	1H,1H-perfluoroheptane-1-ol (6:1 FTOH) 3-	375-82-6	0.200
276	-	perfluorohexylpropanol (6:3 FTOH)	80806-68-4	0.200
277	-	3,3,4,4,5,6,7,7,7-eicosicofluoroheptane-2-ol (5:2 sFTOH) 1-	914637-05-1	0.200
278	-	(perfluorohexyl)octane (F6H8)	133331-77-8	0.200
279	-	1H,1H Trifluoroheptamine (6:1 FTNH2)	423-49-4	0.200
280	-	2H-Perfluoro-2-octenic acid (6:2 FTUCA), 6:6	70887-88-6	0.010
281	6:6 PFPi, and its salt	Perfluorophosphonic acid (6:6 PFPi),	40143-77-9	0.010
282		6:6 Sodium perfluorophosphonate (6:6 PFPi-Na), 6:6	70609-44-8	-
283		Ytterbium(3+) perfluorophosphonate (6:6 PFPi-Yb), 6:6	500776-72-7	-
284		Erbium(3+) perfluorophosphonate (6:6 PFPi-Er),	500776-73-8	-
285	PFBA, and its Salt	Perfluorobutyric acid	375-22-4	0.010
286		(PFBA), Ammonium heptafluorobutyrate	10495-86-0	-
287		(PFBA-NH4), Sodium heptafluorobutyrate (PFBA-Na)	2218-54-4	-



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288		Potassium heptafluorobutyrate	2966-54-3	-
289		(PFBA-K), Silver heptafluorobutyrate	3794-64-7	-
290		(PFBA-Ag), Lithium perfluorobutyrate	4146-76-3	-
291		(PFBA-Li), Piperazine	375-04-2	-
292		heptafluorobutyrate	45048-62-2	-
293		(1:1), Perfluorobutyrate,	375-73-5	0.010
294		Perfluorobutyric acid (PFBS), Potassium	29420-49-3	-
295		perfluorobutylsulfonate (PFBS-K), Perfluorobutylsulfonate	59933-66-3	-
296		hydrate (PFBS-H2O), Lithium nonafluoro -1-	131651-65-5	-
297		butanesulfonate (PFBS-Li), Triphenylsulfonium	144317-44-2	-
298		perfluorobutylsulfonate (TPS-PFBS), Dimethyl (phenyl)sulfonium perfluorobutylsulfonate	220133-51-7	-
299		(PFBS-S(CH3)2(C6H5), Tetrabutylphosphonium perfluorobutylsulfonate (PFBS-P(C4H9)4	220689-12-3	-
300		N,N,N-Triethylethanolamine perfluorobutylsulfonic acid (PFBS-N(C2H5)4) 25628	08-4	-
301		Perfluorobutylsulfonyl fluoride (PFBS-	375-72-4	-
302		F) Morpholine perfluorobutyrate (PFBS-NC4H9O)	503155-89-3	-
303		Magnesium perfluorobutylsulfonate	507453-86-3	-
304		(PFBS -Mg) Ammonium	68259-10-9	-
305		perfluorobutylsulfonate (PFBS-NH4) 1-(4-Butoxy-1-naphthyl)tetrahydrothiophene perfluorobutylsulfonate (PFBS-	209482-18-8	-
306	PFBS, and its Salts & Derivatives	Perfluorobutylsulfonyl chloride (PFBS-Cl)	2991-84-6	-
307		Sodium perfluorobutylsulfonate (PFBS-Na)	60453-92-1	-
308		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonic acid (PFBS-I(C6H4)2(C4H9)2)	194999-85-4	-
309		1,1,2,2,3,4,4,4-fluorobutane-1-sulfonic acid and 2,2'-iminodiethanol The compound (1:1)(PFBS-NH(C2H5O)2)	70225-18-2	-
310		Tetrabutylammonium perfluorobutylsulfonate ((PFBS-	108427-52-7	-
311		N(C4H9)4) Diphenyliodine perfluorobutylsulfonate	194999-82-1	-
312		((PFBS-I(C6H5)2) Tris(4-tert-butylphenyl)sulfonate	241806-75-7	-
313		perfluorobutylsulfonate (4-cyclohexylphenyl)	425670-64-0	-
314		(diphenyl)sulfonate 1-(1-methyl-1H-indol-3-yl)thiol-1-onium	867373-18-0	-
315		perfluorobutylsulfonate 1-ethyl-3-methylpyridinium	1015420-87-7	-
316		perfluorobutylsulfonate 1-methyl-3-octylimidazolium	905972-83-0	-
317		perfluorobutylsulfonate 1-hexyl-3-methylimidazolium	1001557-05-6	-
318		perfluorobutylsulfonate N,N-dimethyl-N-(prop-2-yl)prop-2-amine	374571-81-0	-
319	perfluorobutylsulfonate [4-(2-tert-butoxy-2-oxoethoxy)phenyl] (di Phenyl) (1:1)	857285-80-4	-	



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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(PFAS)

Group	Name	Substance Name	CAS No.	MDL	
				(mg/kg)	
320		Perfluorobutylsulfonic acid N,N-dibutyl-N-methylbutane-1-amine (1:1)	124472-66-8	-	
321		Perfluorobutylsulfonic acid zinc (2:1) (PFBS-Zn)	502457-69-4	-	
322		Perfluorobutylsulfonic acid N,N,N-tripropylpentane (1:1)	56773-55-8	-	
323		Perfluorobutylsulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5	-	
324		Perfluorobutane sulfonic	36913-91-4	-	
325		anhydride	45187-15-3	-	
326		Perfluorobutylsulfonate 1-(4-butoxy-1-naphthyl)nonafluorobutane-1-sulfonic	EC: 468-770-4	-	
327		acid tetrahydrothiophene Perfluorobutylsulfonic acid triethylammonium	182059-38-7	-	
328		N-(2-hydroxyethyl)-N,N-dimethyl-1-octylammonium perfluoro-1-butyrate (1:1)	334529-55-4	-	
329		Perfluorobutylsulfonic acid 1-hexadecylpyridinium	334529-62-3	-	
330		perfluorobutylsulfonic acid 1-butylpyridinium	334529-64-5	-	
331		N-Methyl-N,N-dioctyl-1-octane perfluoro-1-butanedisulfonate tris(4-	495417-51-1	-	
332		methylphenyl)sulfonate and perfluoro-1-butanedisulfonic acid salt (1:1)	722538-68-3	-	
333	PFPeA, and its Salt	Perfluorovalerate (PFPeA)	2706-90-3	0.010	
334		Sodium perfluorovalerate (PFPeA-Na)	2706-89-0	-	
335		Potassium perfluorovalerate (PFPeA-	336-23-2	-	
336		K) Lithium perfluorovalerate (PFPeA-	198482-22-3	-	
337		Li) Silver perfluorovalerate (PFPeA-	2795-30-4	-	
338		Ag) Ammonium perfluorovalerate (PFPeA-	68259-11-0	-	
339		NH ₄)	45167-47-3	-	
340		Perfluorovalerate Benzylthiourea perfluorovalerate (PFPeA-	64808-55-5	-	
341		C ₈ H ₁₀ N ₂ S) Perfluorovalerate anhydride (PFPeAA)	308-28-1	-	
342		HPFHpA, and its salt	7H-Dodecanoic acid (HPFHpA)	1546-95-8	0.010
343			Sodium 7H-dodecanoic acid heptanoate (HPFHpA-Na)	2264-25-7	-
344	7H-Ammonium dodecylfluoroheptanoate (HPFHpA-NH ₄)		376-34-1	-	
345	7H-Dodecylfluoroheptanoate (HPFHpA(anion))	69681-35-2	-		
346	PFHpS, and its Salt	Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	0.010	
347		Sodium perfluoroheptylsulfonate (PFHpS-Na)	21934-50-9	-	
348		Potassium perfluoroheptylsulfonate (PFHpS-K)	60270-55-5	-	
349		Ammonium perfluoroheptanesulfonate (PFHpS-	68259-07-4	-	
350		NH ₄) Lithium perfluoroheptanesulfonate (PFHpS	117806-54-9	-	
351		-Li) Perfluoroheptanesulfonate-bis(2-hydroxyethyl)ammonium	70225-15-9	-	
352		(1:1) Perfluoroheptanesulfonate	146689-46-5	-	
353		Triethylammonium	72033-40-0	-	
354		perfluoroheptanesulfonate Tetraethylammonium perfluoroheptanesulfonate	439863-97-5	-	



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(PFAS)

Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
355		Perfluoroheptane sulfonic anhydride	140429-92-1	-
356	PFHpA, and its Salt	(PFHpSA), Perfluoroheptanoic acid (PFHpA), Sodium perfluoroheptanoate	375-85-9	0.010
357		(PFHpA-Na), Potassium	20109-59-5	-
358		perfluoroheptanoate (PFHpA-K), Ammonium	21049-36-5	-
359		perfluoroheptanoate (PFHpA-NH4),	6130-43-4	-
360		Cesium perfluoroheptanoate (PFHpA-	171198-24-6	-
361		Cs), Silver perfluoroheptanoate (PFHpA-	424-05-5	-
362		Ag), Lithium	60871-90-1	-
363			120885-29-2	-
364		HFPO-DA, and its salts & derivatives thing	perfluoroheptanoate (PFHpA-Li), Perfluoroheptanoate 2,3,3,3-tetrafluoro-2-	13252-13-6
365	(heptafluoropropoxy)propionic acid (HFPO-DA), Ammonium 2,3,3,3-tetrafluoro-2-		62037-80-3	-
366	(heptafluoropropoxy)propionic acid (HFPO-DA-NH4), Potassium 2,3,3,3-tetrafluoro-2-		67118-55-2	-
367	(heptafluoropropoxy)propionic acid (HFPO-DA-K), Acyl fluoride of 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid (HFPO-DA-F)		2062-98-8	-
368	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)-, (+)-propionic acid		75579-39-4	-
369	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)-, (-)-propionic acid		75579-40-7	-
370	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionate		67963-75-1	-
371	sodium perfluorinated (2-		122499-17-6	-
372	propoxypropionate) 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid-N-propylpropane-1-amine (1/1)		165951-17-7	-
373	Triethylamine perfluoro-2-		165951-18-8	-
374	propoxypropanoate 4-[(6-methoxy-3-pyridazinyl)aminosulfonyl]2,3,3,3-tetrafluoro-2-(heptafluoro) 2,3,3,3-Tetrafluoro-7-		298703-31-8	-
375	(heptafluoropropoxy)propionic acid (1-methylpiperidine-3-Methyl 2,3,6-triiodobenzoate (HFPO-C14H16I3NO2)	2412106-69-3	-	
376	4:2 FTS, and Its salt	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
377		1H,1H,2H,2H-Sodium perfluorohexanesulfonate	27619-93-8	-
378		1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS(anion)) Perfluoropentanesulfonic	414911-30-1	-
379	PFPeS, and its Salt	acid (PFPeS) Sodium	2706-91-4	0.010
380		perfluoropentanesulfonate (PFPeS-Na)	630402-22-1	-
381		Potassium perfluoropentanesulfonate (PFPeS-	3872-25-1	-
382		K) Ammonium perfluoropentanesulfonate (PFPeS-	68259-09-6	-
383		NH4) Perfluoropentanesulfonic acid- bis(2-	70225-17-1	-
384		hydroxyethyl)ammonium	1046864-81-6	-
385		perfluoropentanesulfonate	175905-36-9	-
386		lithium perfluoropentanesulfonate	72033-42-2	-
387		(PFPeS-Li) Perfluoropentanesulfonate Triethylammonium perfluoropentanesulfonic anhydride (PFPeSA)	161877-72-1	-



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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(PFAS)

Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
388	-	2-Perfluorohexylacetic acid (6:2 FTCA) 3-	53826-12-3	0.010
389	5:3 FTCA, and its salts	Perfluoropentylpropionic acid (5:3 FTCA)	914637-49-3	0.010
390		2H,2H,3H,3H Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	-
391	PFHxDA, and its salt	Perfluorohexadecanoic acid	67905-19-5	0.010
392		(PFHxDA) Perfluorohexadecanoate	1214264-30-8	-
393	PFODA, and its salt	(PFHxDA(anion))	16517-11-6	0.010
394		Perfluorooctadecanoic acid (PFODA) Perfluorooctadecanoate (PFODA(anion))	798556-82-8	-
395	-	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) 4,8-Dioxo-3H-	2144-53-8	0.200
396	ADONA, and its salt	Perfluorononanoic acid (ADONA) 4,8-Dioxo-3H-	919005-14-4	0.010
397		Perfluorononanoic acid ammonium (ADONA-NH4) 4,8-	958445-44-8	-
398		Dioxo-3H-Perfluorononanoic acid sodium (ADONA-Na)	2250081-67-3	-
399	-	Perfluoro-3-methoxypropionic acid	377-73-1	0.010
400	-	(PFMPA) Perfluoro-4-methoxybutyric	863090-89-5	0.010
401	-	acid (PFMBA) Perfluoro-3,6-Dioxahexanoic	151772-58-6	0.010
402	9Cl-PF3ONS, and its salt	acid (NFDHA) 9-Chlorohexafluoro-3-oxonane-1-sulfonic acid (9Cl-	756426-58-1	0.010
403		PF3ONS) 9-Chlorohexafluoro-3-oxonane-1-sulfonate potassium (9Cl-	73606-19-6	-
404		PF3ONS-K) 9-Chlorohexafluoro-3-oxonane-1-sulfonate ammonium (9Cl-PF3ONS-NH4) 1383434-28-3	-	-
405	11Cl-PF3OUdS and its salts	11-Chloroicosofluoro-3-oxoundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.010
406		Potassium 11-Chloroicosofluoro-3-oxoundecane-1-sulfonate (11Cl-Perfluoro(2-	83329-89-9	-
407	PFEESA, and its salt	ethoxyethane)sulfonic acid (PFEESA), potassium	113507-82-7	0.010
408		perfluoro(2-ethoxyethane)sulfonate (PFEESA-K), sodium	117205-07-9	-
409		perfluoro(2-ethoxyethane)sulfonate (PFEESA-Na), 3-	113507-87-2	-
410	3:3 FTCA, and its salts	perfluoropropylpropionic acid (3:3	356-02-5	0.010
411		FTCA), 4,4,5,6,6,6-heptafluorohexanoate (3:3 FTCA(anion)),	1169706-83-5	-
412	PFPeDA, and its salt	perfluoropentadecanoic acid	141074-63-7	0.100
413		(PFPeDA), perfluoropentadecanoate (PFPeDA(anion))	1214264-29-5	-
414	-	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.200
415	-	2-(N-Ethylperfluorooctanesulfonamide)ethyl acrylate (EtFOSAC), 1-	423-82-5	0.200
416	-	Iodo-1H,1H,2H,2H-perfluorooctane (6:2 FTI),	2043-57-4	0.100
417	-	nonafluorobutanesulfonamide (PFBSA)	30334-69-1	0.100
418	-	N-(2-hydroxyethyl)-N-methylperfluorobutanesulfonamide (PFBS-NC3H8O)	34454-97-2	0.010
419	11H-PFUnDA, and its salt	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
420		Potassium 11H-perfluoroundecanoate (11H-PFUnDA-K)	307-71-1	-
421		11H-Perfluoroundecanoate ammonium (11H-PFUnDA-NH4)	5081-02-7	-
422		11H-perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
423	PFPrA, and its Salt	Pentafluoropropionic acid	422-64-0	0.100
424		(PFPrA), Sodium	378-77-8	-
425		pentafluoropropionate (PFPrA-Na),	509-09-1	-
426		Silver pentafluoropropionate	378-76-7	-
427		(PFPrA-Ag), Potassium	2730-58-7	-
428	HFPO-TA and its salts	pentafluoropropionate (PFPrA-K), Ammonium pentafluoropropionate	13252-14-7	0.200
429		(PFPrA-NH4), Perfluoro-2,5-dimethyl-3,6-dioxananoic acid (HFPO-TA),	67118-57-4	-
430		Potassium perfluoro-2,5-dimethyl-3,6-dioxananoate (HFPO-TA-K), Sodium	67963-76-2	-
431		perfluoro-2,5-dimethyl-3,6-dioxananoate (HFPO-TA-Na), Ammonium	13043-05-5	-
432		perfluoro-2,5-dimethyl-3,6-dioxananoate (HFPO-TA-NH4), Perfluoro-2,5-dimethyl-3,6-dioxanonyl fluoride (HFPO-TA-F)	2641-34-1	-
433	PFEtS, and its Salt	Perfluoroethane sulfonic acid	354-88-1	0.010
434		(PFEtS) Perfluoroethane sulfonate (PFEtS	108410-37-3	-
435		(anion)) Potassium perfluoroethane	2837-92-5	-
436	6:2 diPAP, and its salts	sulfonate (PFEtS-K) Bis[2-(perfluorohexyl)ethyl]phosphate	57677-95-9	0.010
437		(6:2 diPAP) Bis[2-(perfluorohexyl)ethyl]phosphate (6:2	407582-79-0	-
438		diPAP-Na) Bis[2-(perfluorohexyl)ethyl]phosphate ion (6:2 diPAP(Anion))	667465-18-1	-
439	TFSI and its salts	Bis(trifluoromethane)sulfonylimide (TFSI)	82113-65-3	0.010
440		1-Butyl-1-methylpyrrolidine bis(trifluoromethane)sulfonylimide	223437-11-4	-
441		Tributylmethylammonium	405514-94-5	-
442		bis(trifluoromethane)sulfonylimide Lithium	90076-65-6	-
443		bis(trifluoromethane)sulfonylimide (TFSI-Li) 1-Decyl-3-	433337-23-6	-
444	10:2 monoPAP, and its salts	methylimidazolium bis(trifluoromethane)sulfonylimide Mono[2-	57678-05-4	0.100
445		(perfluorodecyl)ethyl]phosphate (10:2 monoPAP) Mono[2-(perfluorodecyl)ethyl] bis(trifluoromethyl)phosphate	93857-45-5	-
446		N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tribofluorononyl)iodoacetamide trifluoromethanesulfonic	852527-50-5	0.010
447	TFMS, and its Salt	acid (TFMS) Sodium	1493-13-6	0.010
448		trifluoromethanesulfonate (TFMS-Na) Silver	2926-30-9	0.010
449		trifluoromethanesulfonate (TFMS-Ag) Zinc	2923-28-6	-
450		trifluoromethanesulfonate (TFMS-Zn) Scandium	54010-75-2	-
451		trifluoromethanesulfonate (TFMS-Sc) Lithium	144026-79-9	-
452		trifluoromethanesulfonate	358-23-6	-
453		trifluoromethanesulfonate	33454-82-9	-
454		trifluoromethanesulfonate (TFMS-Li) Copper	34946-82-2	-
455		trifluoromethanesulfonate (TFMS-Cu) Barium	2794-60-7	-
456		trifluoromethanesulfonate (TFMS-Ba) Cerium	107792-63-2	-
457		trifluoromethanesulfonate (TFMS-Ce) Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
458		Potassium trifluoromethanesulfonate (TFMS-	2926-27-4	-
459		K) Nickel trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	-
460		Tin trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	-
461		Yttrium trifluoromethanesulfonate (TFMS-Y)	52093-30-8	-
462		Iron trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	-
463		Cerium trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	-
464		Tetrabutylammonium	35895-70-6	-
465		trifluoromethanesulfonate	121107-18-4	-
466		Methyltrioctylammonium	29727-06-8	-
467		imidazole trifluoromethanesulfonate	68602-57-3	-
468		Trifluoroacetyl trifluoromethanesulfonate	52093-26-2	-
469		Lanthanum(III) trifluoromethanesulfonate (TFMS-	128008-30-0	-
470		La) Indium(III) trifluoromethanesulfonate (TFMS-	52093-28-4	-
471		In) Samarium(III) trifluoromethanesulfonate (TFMS-	54761-04-5	-
472		Sm) Ytterbium(III) trifluoromethanesulfonate (TFMS-	141478-68-4	-
473		Yb) Thulium(III)	35895-69-3	-
474		trifluoromethanesulfonate (TFMS-Tm)	107264-06-2	-
475		Tetraethylammonium	646-58-2	-
476		trifluoromethanesulfonate 1-Fluoro-3,5-dichloropyridine trifluoromethanesulfonate Triethylamine Triphenylmethylcarboxylic Anhydride Phosphorus	72450-51-2	-
477		N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-anthracite-3-yltrifluoromethanesulfonate ammonium	120611-30-5	-
478		trifluoromethanesulfonate	164411-06-7	-
479		diphenylammonium trifluoromethanesulfonate 1-(3-aminoazacyclobutane-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid		-
480		2060047-56-3 guanidine	153756-25-3	-
481		trifluoromethanesulfonate trifluoromethanesulfonate-1-	501693-46-5	-
482		ethyl-1H-imidazolium(1/1)ruthenium(3+) (OC-6-22)- with trifluoromethanesulfonic acid (1:3) salt	74468-24-9	-
483		O-Neopentanyloxyhydroxylamine trifluoromethanesulfonate,	1293990-73-4	-
484		trifluoromethanesulfonyl	421-83-0	-
485		chloride (2-pyridinemethyl)sulfonyl chloride trifluoromethanesulfonate,	882564-09-2	-
486		trifluoromethanesulfonyl	15458-53-4	-
487		bromide, mercuric trifluoromethanesulfonate (II) (TFMS-	49540-00-3	-
488		Hg), dysprosium trifluoromethanesulfonate (III) (TFMS-	139177-62-1	-
489		Dy), manganese trifluoromethanesulfonate (II) (TFMS-	55120-76-8	-
490		Mn), pentamine osmium	83781-30-0	-
491		trifluoromethanesulfonate (III), lutetium	126857-69-0	-
492		trifluoromethanesulfonate (III) (TFMS-Lu), terbium	148980-31-8	-
493		trifluoromethanesulfonate (III) (TFMS-Tb), neodymium trifluoromethanesulfonate (II) (TFMS-Nd)	34622-08-7	-



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Guangzhou Branch, Technical Services Co., Ltd. Guangzhou Branch

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
494		Ammonium trifluoromethanesulfonate	38542-94-8	-
495		(TFMS-NH4), Holmium trifluoromethanesulfonate	139177-63-2	-
496		(TFMS-Ho),	37181-39-8	-
497		Praseodymium trifluoromethanesulfonate	52093-27-3	-
498		(TFMS-Pr), Bismuth trifluoromethanesulfonate	88189-03-1	-
499		(TFMS-Bi), Europium trifluoromethanesulfonate	52093-25-1	-
500		(TFMS-Eu), Erbium trifluoromethanesulfonate	139177-64-3	-
501		(TFMS-Er), Gallium trifluoromethanesulfonate (TFMS-Ga)	74974-60-0	-
502		N,N,N-Triethyl-2,2,2-trifluoroethane-1-trifluoromethanesulfonate	380230-73-9	-
503		ammonium calcium trifluoromethanesulfonate	55120-75-7	-
504		(II) (TFMS-Ga) Thallium	73491-36-8	-
505		trifluoromethanesulfonate (I) (TFMS-TI)	161337-67-3	-
506	PFPrS, and its	Hafnium trifluoromethanesulfonate	423-41-6	0.010
507	Salt	(IV) (TFMS-Hf) Perfluoropropanesulfonic	359868-82-9	-
508		acid (PFPrS) Sodium perfluoropropanesulfonate (PFPrS-	24015-83-6	0.200
509		Na) 1-Perfluoroheptylethanol (7:2 sec) (7:2sFTOH) 1-	2043-55-2	0.200
510	PFHpSi, and	Iodine-1H, 1H, 2H, 2H-Perfluorohexane (4:2	769067-51-8	0.010
511	Its salt	FT1) Perfluoroheptane-1-sulfinic acid (PFHpSi) Sodium	68555-66-8	-
512	PFOPA, and	perfluoroheptane-1-sulfinate (PFHpSi-	40143-78-0	0.010
513	Its salt	Na) Perfluorooctylphosphate (PFOPA) Perfluorooctylphosphate-4-methylbenzamide	1263361-03-0	-
514		1H, 1H-Perfluorooctylamine (7:1 FTNH2)	307-29-9	0.200
515		Perfluoroheptamide (PFHpA-NH2)	2358-22-7	0.100
516		Perfluorobutyramide (PFBA-NH2)	662-50-0	0.200
517		1H, 1H, 2H, 2H-Nonfluorohexyl ester (4:2 FTA)	52591-27-2	0.200
518		N-Methyl-Nine-fluorobutyrate sulfonamide (MeFBSA)	68298-12-4	0.010
519		N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-Tetrafluoro-N-(2-hydroxyethyl) 1-Hexanesulfonamide (Et-FHxSE),	34455-03-3	0.010
520	TFA and its salts	Trifluoroacetic acid	76-05-1	1.000
521		(TFA), Sodium trifluoroacetate	2923-18-4	-
522		(TFA-Na), Thallium trifluoroacetate	23586-53-0	-
523		(TFA-TI), Lithium trifluoroacetate	2923-17-3	-
524		(TFA-Li), Silver trifluoroacetate	2966-50-9	-
525		(TFA-Ag), Cesium trifluoroacetate	21907-50-6	-
526		(TFA-Cs), Potassium	2923-16-2	-
527		trifluoroacetate (TFA-K), Ammonium	3336-58-1	-
528		trifluoroacetate (TFA-NH4),	13257-51-7	-
529		Mercuric trifluoroacetate (TFA-Hg), Palladium trifluoroacetate (TFA-Pd)	42196-31-6	-



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Group	Name	Substance Name	CAS No.	MDL
				(mg/kg)
530		Trifluoroacetate (TFA anion)	14477-72-6	-
531		Dimethyl[(trifluoroacetyl)oxy]sulfonium trifluoroacetate	57738-66-6	-
532		aluminum(III) (TFA-Al) Barium	36554-89-9	-
533		trifluoroacetate(II) (TFA-Ba) Erbium	60884-92-6	-
534		trifluoroacetate(III) (TFA-Er) Indium	70236-99-6	-
535		trifluoroacetate(III) (TFA-In)	36554-90-2	-
536		Lanthanum trifluoroacetate(III) (TFA-	70236-92-9	-
537		La) Nickel trifluoroacetate(II) (TFA-	16083-14-0	-
538		Ni) Lead trifluoroacetate(II) (TFA-	4146-73-0	-
539		Pb) Rhodium trifluoroacetate(II)	72654-51-4	-
540		(TFA-Rh) Thulium trifluoroacetate(III)	70237-00-2	-
541		(TFA-Tm) Ytterbium trifluoroacetate(III)	87863-62-5	-
542		(TFA-Yb) Zinc trifluoroacetate(II)	21907-47-1	-
543		(TFA-Zn) Ruthenium	61612-84-8	-
544		trifluoroacetate(II) (TFA-Ru)	123333-72-2	-
545		Magnesium trifluoroacetate(II) (TFA-	123333-88-0	-

Mg) Copper trifluoroacetate(II) (TFA-Cu) 2. For textile and leather samples, the MDL of the substance is 0.200 mg/kg.



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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
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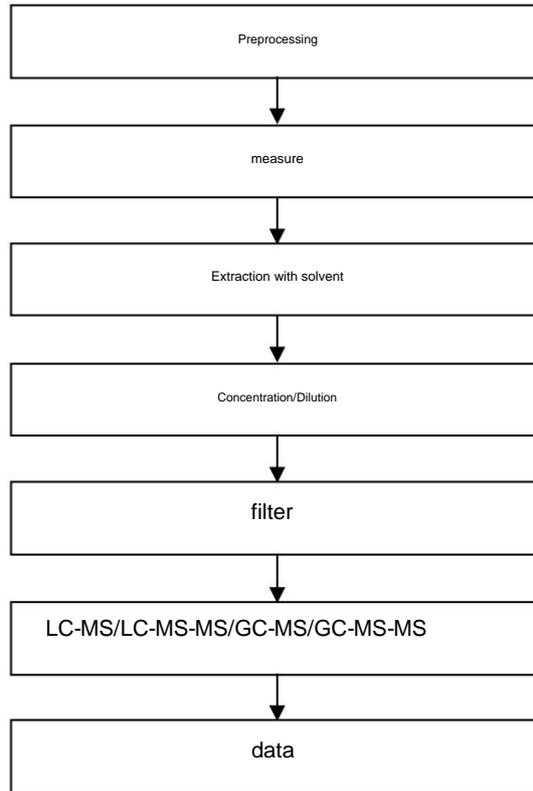
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appendix

PFASs/PFOS/PFOA detection flowchart



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

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
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Sample photos:



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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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t (86-20) 82155555 sgs.china@sgs.com