

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 1 of 31

Client Name: Jiangsu DINGS' Intelligent Control Technology Co., LTD

Client Address: No. 2850 Luheng Road, Economic Development Zone, Changzhou, Jiangsu, 213025 China

Sample Name: Stepper Lead Screw Linear Actuator/Stepper Ball Screw Linear Actuator/Linear Module/Gripper

Tested Basic Model No.: 17E2115Y4-85SNSN-150SZ

Tested Extended Model No.: 17N2115Q4-173SMSN-150SZ/17C2115AA4-100SMSN-150SZ/17K2115K4-100SMSN-150SZ/17E2115BS84-180RNN-030SZ/DLM50-17E2110L4-N-001SZ/DMEG12-17N2115R4-R-101SZ

Client Ref. Information: E/N/C/K/BS/DLM/DSM/DSLM/DWM/DLG/DMEG

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

SGS Job No.: SHP24-041710

Sample Receiving Date: Jan 10, 2025

Testing Period: Jan 10, 2025 ~ Jan 15, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Justin Zhang

Justin Zhang
Approved Signatory

Scan to see the report



04F47A7C



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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 2 of 31

Test Sample:

Photo of Submitted Sample



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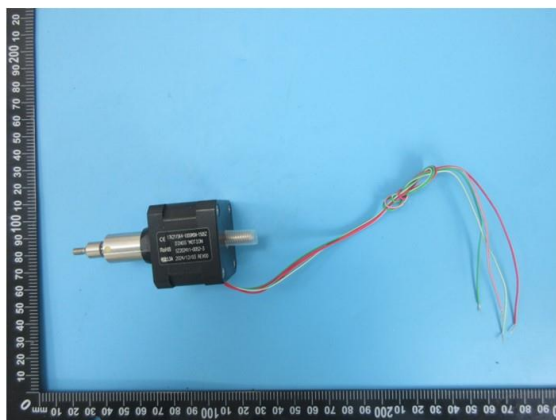
Date: Feb 14, 2025

Page 3 of 31



17C2115AA4-100SM5N-150SZ

TAO24-0102761



17K2115K4-100SM5N-150SZ

TAO24-0102761



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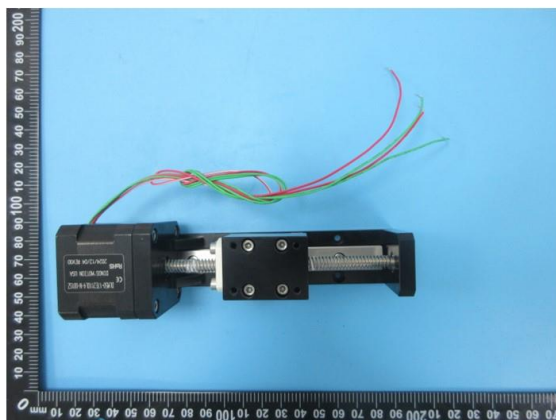
Date: Feb 14, 2025

Page 4 of 31



17E2115BS84-180RNN-030SZ

TAO24-0102761



DLM50-17E2110L4-N-001SZ

TAO24-0102761



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Test Report
(PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 5 of 31



DMEG12-17N2115R4-R-101SZ

TAO24-0102761

SGS authenticate the photo on original report only

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2+A9	TAO24-0102761-0008	White plastic + White plastic
SN2	A23+A24	TAO24-0102761-0009	Green plastic(jacket) + Green/white plastic
SN3	A25+A26	TAO24-0102761-0010	Red plastic(jacket) + Red/white plastic(jacket)
SN4	B1+C2	TAO24-0102761-0011	Beige plastic + White plastic
SN5	D1+E2	TAO24-0102761-0012	White plastic + Black plastic
SN6	E4+E5	TAO24-0102761-0013	Blue plastic(jacket) + Red plastic(jacket)
SN7	E6+E7	TAO24-0102761-0014	Black plastic(jacket) + Green plastic(jacket)
SN8	E8+F7	TAO24-0102761-0015	Black plastic + Black plastic
SN9	F9+G1	TAO24-0102761-0016	Yellow plastic + Red plastic(jacket)

470 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method:

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

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



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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 6 of 31

Substance Name	CAS No.	A2+A9 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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

Substance Name	CAS No.	A23+A24 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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

Substance Name	CAS No.	A25+A26 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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

Substance Name	CAS No.	B1+C2 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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

Substance Name	CAS No.	D1+E2 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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

Substance Name	CAS No.	E4+E5 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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

Substance Name	CAS No.	E6+E7 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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

Substance Name	CAS No.	E8+F7 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

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



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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 7 of 31

Substance Name	CAS No.	F9+G1 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.

Remark:Based on the material risk assessment results, the selected parts in the sample photos were tested and conclusions were drawn.

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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No.: TAOEC24010276101

Date: Feb 14, 2025

Page 8 of 31

Appendix:

1. Appendix: List of PFAS, its salts & derivatives

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
1	PFOS, its salts & derivatives	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.010
2		Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3	--
3		Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	--
4		Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0	--
5		Ammonium perfluorooctanesulfonate (PFOS-NH ₄)	29081-56-9	--
6		Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8	--
7		Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3	--
8		N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8	--
9		Tetrabutylammonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7	--
10		Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7	--
11		Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4	--
12		Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	--
13		Perfluorooctanesulfonate	45298-90-6	--
14		Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃)	54439-46-2	--
15		Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5	--
16		N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9	--
17		N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0	--
18		Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8	--
19		Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0	--
20		1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4	--
21		N,N,N-Triethyldecyl-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4	--



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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 9 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
22		Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄)	2185049-59-4	--
23		Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7	--
24		heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3	--
25		Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7	--
26	FOSAA, its salts	Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.010
27		N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6	--
28		N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	--
29		N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5	--
30	N-MeFOSAA, its salts	N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.010
31		2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7	--
32		Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5	--
33	N-EtFOSAA, its salts	N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.010
34		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7	--
35		2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	--
36		Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8	--
37		Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	--
38	--	N-ethylperfluoro-1-octanesulfonamide (N-EtFOA)	4151-50-2	0.010
39	--	N-methylperfluoro-1-octanesulfonamide (N-MeFOA)	31506-32-8	0.010
40	--	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	0.010
41	--	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.010
42	PFOSA, its salts	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	0.010
43		Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	--



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Date: Feb 14, 2025

Page 10 of 31

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44		Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8	--
45		Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0	--
46		Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2	--
47		Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4	--
48	PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1	0.010
49		Sodium perfluorooctanoate (PFOA-Na)	335-95-5	--
50		Potassium perfluorooctanoate (PFOA-K)	2395-00-8	--
51		Silver perfluorooctanoate (PFOA-Ag)	335-93-3	--
52		Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	--
53		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	--
54		Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	--
55		Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	--
56		Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	--
57		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6	--
58		Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9	--
59		Pentadecafluorooctanoate (anion)	45285-51-6	--
60		Perfluorooctanoic Anhydride	33496-48-9	--
61		N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9	--
62		Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7	--
63		Tetrapropylammonium perfluorooctanoate	277749-00-5	--
64		Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7	--
65		Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6	--
66		Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	95658-47-2	--
67		pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7	--
68		N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6	--
69	8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010
70		Potassium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-K)	438237-73-1	--



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SGS CSTC (Shandong Technical Services) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgsgroup.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 11 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
71		Ammonium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-NH ₄)	149724-40-3	--
72		Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na)	27619-96-1	--
73		2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7	--
74	--	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.200
75	--	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.200
76	--	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)*	27905-45-9	0.100
77	--	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)*	1996-88-9	0.100
78	--	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.200
79	8:2 FTCA, its salts	2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5	0.010
80		Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7	--
81	--	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.100
82	--	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)*	2043-53-0	0.100
83	--	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)*	101947-16-4	0.100
84	8:2diPAP, its salts	Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1	0.010
85		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	--
86		Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	--
87		Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH ₄)	93776-20-6	--
88		8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1	--
89	8:3 FTCA, its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	0.010
90		Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1	--
91		2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8	--
92	--	1H,1H,2H-Heptadecafluoro-1-decene (PFDE)*	21652-58-4	0.200
93	--	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.010
94	--	1H,1H,2H,2H-Perfluorodecyltrichlorosilane*	78560-44-8	0.100
95	--	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane*	83048-65-1	
96	--	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.010
97	--	6:8 Perfluorophosphinic acid (6:8 PFPI)	610800-34-5	0.010
98	--	8:8 Perfluorophosphinic acid (8:8 PFPI)	40143-79-1	0.010



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SGS-CSTC (Shanghai) Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 12 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
99	8:8 PFPI, its salts	Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)	500776-69-2	--
100		Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)	500776-70-5	--
101		Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)	500776-71-6	--
102	--	1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)*	37858-04-1	0.100
103	8:2 monoPAP, its salts	8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	0.100
104		8:2 Fluorotelomer diammonium phosphate	93857-44-4	--
105		Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	--
106		Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	--
107		3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	--
108		Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	--
109		Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	--
110		Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	--
111	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
112		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
113		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4	--
114		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
115		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
116		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
117		Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6	--
118		Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) PFNA-NH ₂ (C ₂ H ₅) ₂	77032-27-0	--
119		Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-NH ₂ (CH ₃) ₂)	77032-24-7	--
120		Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7	--
121		Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9	--
122		Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-NH ₃ (C ₆ H ₅))	95682-67-0	--



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SGS CSTC (Shanghai) Technical Services Co., Ltd.
检验检测专用章
Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 13 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
123		Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2	--
124		Perfluorononanoate (anion)	72007-68-2	--
125		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0	--
126		Perfluorononanoic anhydride (PFNAA)	228407-54-3	--
127	PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2	0.010
128		Sodium perfluorodecanoate (PFDA-Na)	3830-45-3	--
129		Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7	--
130		Potassium perfluorodecanoate (PFDA-K)	51604-85-4	--
131		Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	--
132		Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	--
133		Perfluorodecanoate (anion)	73829-36-4	--
134		Perfluorodecanoic anhydride (PFDA)	942199-24-8	--
135	PFUnDA, its salts	Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.010
136		Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	--
137		Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5	--
138		Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	--
139		Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	--
140		Perfluoroundecanoate (anion)	196859-54-8	--
141	PFDoDA, its salts	Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.010
142		Ammonium tricosafuorododecanoate (PFDoDA-NH ₄)	3793-74-6	--
143		Perfluorododecanoate (anion)	171978-95-3	--
144	PFTTrDA, its salts	Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	0.010
145		Ammonium perfluorotridecanoate (PFTTrDA-NH ₄)	4288-72-6	--
146		Sodium perfluorotridecanoate (PFTTrDA-Na)	60872-01-7	--
147		Perfluorotridecanoate (anion)	862374-87-6	--
148	PFTDA, its salts	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
149		Perfluorotetradecanoate (anion)	365971-87-5	--
150	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010
151	PFDS, its salts	Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010
152		Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	--
153		Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	--



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SGS-CSTC (Shanghai) Technical Services (Group) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 14 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
154		Ammonium perfluorodecanesulfonate (PFDS-NH ₄)	67906-42-7	--
155		Perfluorodecane sulfonate (anion)	126105-34-8	--
156		Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	--
157	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
158	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)*	17741-60-5	0.100
159	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)*	2144-54-9	0.100
160	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
161	10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.010
162		1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3	--
163	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)*	2043-54-1	0.100
164	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)*	30046-31-2	0.100
165	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
166		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
167		ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4	--
168		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--
169		Perfluorononane sulfonate (anion)	474511-07-4	--
170	PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.010
171		Perfluoroundecanesulfonate (anion)	441296-91-9	--
172	PFD0DS, its salts	Perfluorododecanesulfonic acid (PFD0DS)	79780-39-5	0.010
173		Sodium perfluoro-1-dodecanesulfonate (PFD0DS-Na)	1260224-54-1	--
174		Potassium perfluorododecanesulfonate (PFD0DS-K)	85187-17-3	--
175		Perfluorododecane sulfonate (anion)	343629-43-6	--
176	PFTrDS, its salts	Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	0.010
177		Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1	--
178	10:2 diPAP, its salts	10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.100
179		Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C ₄ H ₁₁ O ₂)	57677-98-2	--
180	--	Perfluorodecyl iodide (PFDI)*	423-62-1	0.100
181	--	Perfluorododecyl iodide (PFD0DI)*	307-60-8	0.100
182	--	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.010



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 15 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
183	--	2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.010
184	--	1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)*	37858-05-2	0.100
185	PFHxS, its salts & derivatives	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.010
186		Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	--
187		Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	--
188		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) (PFHxS-Li)	55120-77-9	--
189		Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄)	68259-08-5	--
190		Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)	1000597-52-3	--
191		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₄ H ₉) ₄)	108427-54-9	--
192		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H ₅) ₄)	108427-55-0	--
193		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC ₄ H ₉)	1187817-57-7	--
194		Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (Calculated in terms of PFHxS) (PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄)	1310480-24-0	--
195		Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	1310480-27-3	--
196		Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂)	1310480-28-4	--
197		Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-C ₄₂ H ₇₀ O ₃₅)	1329995-45-0	--
198		Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-	1329995-69-8	--



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SGS CSTC (Shanghai) Technical Services Co., Ltd.
检验检测专用章
Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgsgroup.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 16 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
		hexanesulfonic acid ion(1-)(1:1)(PFHxS-C ₄₈ H ₈₀ O ₄₀)		
199		Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS)	144116-10-9	--
200		Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-C ₄₄ H ₃₇ N ₂ O ₂)	1462414-59-0	--
201		Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C ₆ H ₅) ₂)	153443-35-7	--
202		Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA)	189274-31-5	--
203		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)(PFHxS-NH ₂ (CH ₃) ₃)	202189-84-2	--
204		Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	213740-81-9	--
205		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)(PFHxS-Ga)	341035-71-0	--
206		Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅)	341548-85-4	--
207		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)(PFHxS-Sc)	350836-93-0	--
208		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)(PFHxS-Nd)	41184-65-0	--
209		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)(PFHxS-Y)	41242-12-0	--
210		Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)(PFHxS-S ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂)	421555-73-9	--
211		Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic(PFHxS-I (C ₆ H ₄) ₂ (C ₅ H ₁₁))	421555-74-0	--
212		Perfluorohexane sulphonyl fluoride(PFHxS-F)	423-50-7	--
213		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃)	425670-70-8	--



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SGS CSTC (Shanghai) Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 17 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
214		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--
215		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0	--
216		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)(PFHxS-N(C ₂ H ₅) ₃)	72033-41-1	--
217		Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9Cl) (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	866621-50-3	--
218		Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇)	910606-39-2	--
219		Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6,6,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ 8 ₁₀ H ₉ O ₂)	911027-68-4	--
220		1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)	92011-17-1	--
221		Dibenzo[k,n][1,4,7,10,13]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	--
222		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
223		Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer)	911027-69-5	--
224		Perfluorohexane sulfonate (anion)	108427-53-8	--
225		Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P (C ₄ H ₉) ₄)	2310194-12-6	--
226	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010
227	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
228	--	N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgsgroup.com.cn
t (86-532) 68999888 sgs.china@sgs.com

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 18 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
229	--	2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.200
230	--	2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6	0.200
231	--	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1	0.200
232	--	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE)	68555-75-9	0.010
233	EtFHxSAA, its salts	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA)	68957-32-4	0.010
234		Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	--
235		Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	--
236	PFHxA, its salts & derivatives	Perfluorohexane Acid (PFHxA)	307-24-4	0.010
237		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
238		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
239		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
240		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--
241		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
242		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
243		Perfluorohexanoic anhydride	308-13-4	--
244		Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2	--
245		Perfluorohexanoate (anion)	92612-52-7	--
246		Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	--
247		Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4	--
248		1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C ₁₀ H ₁₄ N ₂)	985-60-4	--
249	--	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.100
250	--	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.400
251	--	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.200
252	6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
253		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
254		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 19 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
255		Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄)	59587-39-2	--
256		1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1) (6:2 FTS-Ba)	1807944-82-6	--
257		2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3	--
258	--	1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃)	51851-37-7	0.500
259	--	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.200
260	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
261	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	0.200
262	--	n-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide n-oxide	80475-32-7	0.100
263	--	thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.200
264	6:2 monoPAP, its salts	6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	0.100
265		Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH ₄ NH ₄)	1000852-37-8	-
266	--	2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
267	--	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
268	--	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl)	102488-47-1	0.200
269	--	1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
270	--	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	0.200
271	6:2 FTPA, its salts	Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	0.100
272		Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP ₂ OH-Na(PFHEPA-Na))	1189052-95-6	--
273	--	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-(5:1 FTOH)	423-46-1	0.200
274	--	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.200
275	--	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.200
276	--	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	0.200
277	--	1-(perfluorohexyl)octane (F ₆ H ₈)	133331-77-8	0.200
278	--	1H,1H-Tridecafluoroheptylamine (6:1 FTNH ₂)	423-49-4	0.200
279	--	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.010
280		6:6 Perfluorophosphinic acid (6:6 PFPi)	40143-77-9	0.010



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 20 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
281	6:6 PFPI, its salts	Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPI-Na)	70609-44-8	--
282		Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPI-Yb)	500776-72-7	--
283		Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPI-Er)	500776-73-8	--
284	PFBA, its salts	Perfluorobutane Acid (PFBA)	375-22-4	0.010
285		Ammonium perfluorobutanoate (PFBA-NH ₄)	10495-86-0	--
286		Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	--
287		Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	--
288		Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	--
289		Lithium perfluorobutanoate (PFBA-Li)	4146-76-3	--
290		Heptafluorobutanoic acid-piperazine (1:1)	375-04-2	--
291		Perfluorobutanoate (anion)	45048-62-2	--
292	PFBS, its salts & derivatives	Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.010
293		Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3	--
294		Perfluorobutanesulfonic Acid Hydrate (PFBS-H ₂ O)	59933-66-3	--
295		lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	--
296		Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2	--
297		Dimethyl(phenyl)sulfonium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅)	220133-51-7	--
298		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P(C ₄ H ₉) ₄)	220689-12-3	--
299		N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-N(C ₂ H ₅) ₄)	25628-08-4	--
300		Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	--
301		Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O)	503155-89-3	--
302		Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	--
303		Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH ₄)	68259-10-9	--
304		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O)	209482-18-8	--
305		1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6	--
306		Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	--
307		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butan-sulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	194999-85-4	--



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Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 21 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
308		1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH(C ₂ H ₅ O) ₂)	70225-18-2	--
309		Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄))	108427-52-7	--
310		Diphenyliodonium nonafluorobutane-1-sulfonate((PFBS-I(C ₆ H ₅) ₂))	194999-82-1	--
311		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	241806-75-7	--
312		Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	425670-64-0	--
313		Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	867373-18-0	--
314		Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	1015420-87-7	--
315		1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	905972-83-0	--
316		1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	1001557-05-6	--
317		2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	374571-81-0	--
318		Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	857285-80-4	--
319		1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	124472-66-8	--
320		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	--
321		1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	56773-55-8	--
322		Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5	--
323		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	
324		Perfluorobutane sulfonate (anion)	45187-15-3	--
325		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4	--
326		Triethylammonium perfluorobutane sulfonate	182059-38-7	--



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SGS CSTC (Shandong) Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 22 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
327		N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanefluorobutanesulfonate (1:1)	334529-55-4	--
328		1-Hexadecylpyridinium perfluoro-1-butanefluorobutanesulfonate	334529-62-3	--
329		1-Butylpyridinium perfluoro-1-butanefluorobutanesulfonate	334529-64-5	--
330		N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanefluorobutanesulfonate	495417-51-1	--
331		Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanefluorobutanesulfonic acid (1:1)	722538-68-3	--
332	PFPeA, its salts	Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
333		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	--
334		Potassium perfluoropentanoate(PFPeA-K)	336-23-2	--
335		Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	--
336		Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4	--
337		Ammonium perfluoropentanoate(PFPeA-NH ₄)	68259-11-0	--
338		Perfluoropentanoate (anion)	45167-47-3	--
339		Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-C ₈ H ₁₀ N ₂ S)	64808-55-5	--
340		Perfluoropentanoic anhydride (PFPeAA)	308-28-1	--
341	HPFHpA, its salts	7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	0.010
342		Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
343		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)	376-34-1	--
344		7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	--
345	PFHpS, its salts	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
346		Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
347		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
348		Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4	--
349		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
350		1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9	--
351		Perfluoroheptane sulfonate (anion)	146689-46-5	--
352		Triethylammonium perfluoroheptane sulfonate	72033-40-0	--
353		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	--
354		Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1	--
355	PFHpA, its salts	Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
356		Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--



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检验检测专用章
Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 23 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
357		Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	--
358		Ammonium perfluoroheptanoate (PFHpA-NH ₄)	6130-43-4	--
359		Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	--
360		Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	--
361		Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	--
362		Perfluoroheptanoate (anion)	120885-29-2	--
363	HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6	0.010
364		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH ₄)	62037-80-3	--
365		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	--
366		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	--
367		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-	75579-39-4	--
368		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-	75579-40-7	--
369		Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	67963-75-1	--
370		Perfluoro(2-propoxypropanoate)	122499-17-6	--
371		2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7	--
372		Triethylaminium perfluoro-2-propoxypropanoate	165951-18-8	--
373		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	--
374		2,3,6-Triiodobenzoic acid (1-methyl-3-piperidiny)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1) (HFPO-C ₁₄ H ₁₆ I ₃ NO ₂)	2412106-69-3	--
375	4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
376		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	--
377		4:2 Fluorotelomer sulfonate (4:2 FTS(anion))	414911-30-1	--
378	PFPeS, its salts	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010
379		Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	--
380		Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	--
381		Ammonium perfluoropentanesulfonate (PFPeS-NH ₄)	68259-09-6	--



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgsgroup.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 24 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
382		Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1	--
383		Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6	--
384		Perfluoropentane sulfonate (anion)	175905-36-9	--
385		Triethylammonium perfluoropentane sulfonate	72033-42-2	--
386		Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1	--
387	--	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.010
388	--	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.010
389	PFHxDA, its salts	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
390		Hentriacontafuorohexadecanoate anion (PFHxDA(anion))	1214264-30-8	--
391	PFODA, its salts	Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010
392		Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8	--
393	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.200
394	ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
395		Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄)	958445-44-8	--
396		Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	--
397	--	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
398	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
399	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010
400	9Cl-PF ₃ ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF ₃ ONS)	756426-58-1	0.010
401		Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF ₃ ONS-K)	73606-19-6	--
402		Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF ₃ ONS-NH ₄)	1383434-28-3	--
403	11Cl-PF ₃ OUdS, its salts	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF ₃ OUdS)	763051-92-9	0.010
404		Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF ₃ OUdS-K)	83329-89-9	--
405	--	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	113507-82-7	0.010
406	--	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.010
407	PFPeDA, its salts	Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	0.100
408		Nonacosafuoropentadecanoate (PFPeDA(anion))	1214264-29-5	--



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 25 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
409	--	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.200
410	--	2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	0.200
411	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.100
412	--	Perfluorobutane sulfon amides (PFBSA)	30334-69-1	0.100
413	--	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC ₃ H ₈ O)	34454-97-2	0.010
414	11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
415		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-K)	307-71-1	--
416		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-NH ₄)	5081-02-7	--
417		11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	--
418	PFPrA, its salts	Pentafluoropropionic acid (PFPrA)	422-64-0	0.100
419		Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	--
420		Silver pentafluoropropionate (PFPrA-Ag)	509-09-1	--
421		Potassium pentafluoropropionate (PFPrA-K)	378-76-7	--
422		Ammonium pentafluoropropionate (PFPrA-NH ₄)	2730-58-7	--
423	HFPO-TA, its salts	Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	0.200
424		Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]-, potassium salt (HFPO-TA-K)	67118-57-4	--
425		Perfluoro-2,5-dimethyl-3,6-dioxanonoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	--
426		Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH ₄)	13043-05-5	--
427		Perfluoro(2,5-dimethyl-3,6-dioxanonoil) fluoride (HFPO-TA-F)	2641-34-1	--
428	--	Perfluoroethane sulfonic acid (PFEtS)	354-88-1	0.010
429	6:2 diPAP, its salts	6:2 Fluorotelomer phosphate diester (6:2 diPAP)	57677-95-9	0.010
430		Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na)	407582-79-0	--
431		Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2 diPAP(Anion))	667465-18-1	--



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 26 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
432	TFSI, its salts	Bis(trifluoromethane)sulfonimide (TFSI)	82113-65-3	0.010
433		1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-11-4	--
434		Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide	405514-94-5	--
435		Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li)	90076-65-6	--
436		1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6	--
437	10:2 monoPAP, its salts	10:2 Fluorotelomerphosphatemonoester (10:2 monoPAP)	57678-05-4	0.100
438		10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5	--
439	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide	852527-50-5	0.010
440	TFMS, its salts	Trifluoromethane sulfonic acid (TFMS)	1493-13-6	0.010
441		Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9	--
442		Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	--
443		Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2	--
444		Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	--
445		Trifluoromethanesulfonic anhydride	358-23-6	--
446		Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	--
447		Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2	--
448		Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	--
449		Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2	--
450		Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	--
451		Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4	--
452		Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	--
453		Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	--
454		Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	--
455		Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	--
456		Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	--
457	PFPrS, its salts	Perfluoropropate sulfonic acid (PFPrS)	423-41-6	0.010
458		Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9	--
459	--	1-pefluoroheptyl ethanol (7:2 secondary) (7:2sFTOH)	24015-83-6	0.200
460	--	4:2 Fluorotelomer iodide (4:2 FTI)	2043-55-2	0.200



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Test Report (PFAS)

No.: TAOEC24010276101

Date: Feb 14, 2025

Page 27 of 31

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
461	PFHpSi, its salts	Perfluoroheptane-1-sulfonic acid (PFHpSi)	769067-51-8	0.010
462		1-heptanesulfonic Acid Sodium Salt (PFHpSi-Na)	68555-66-8	--
463	PFOPA, its salts	Perfluorooctyl phosphonic acid (PFOPA)	40143-78-0	0.010
464		(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (1/1)	1263361-03-0	--
465	--	1H,1H-Perfluorooctylamine (7:1 FTNH ₂)	307-29-9	0.200
466	--	Perfluoroheptanamide (PFHpA-NH ₂)	2358-22-7	0.100
467	--	Perfluorobutyramide (PFBA-NH ₂)	662-50-0	0.200
468	--	1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	0.200
469	--	N-methylperfluoro-1-butanefulfonamide (MeFBSA)	68298-12-4	0.010
470	--	N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE)	34455-03-3	0.010

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



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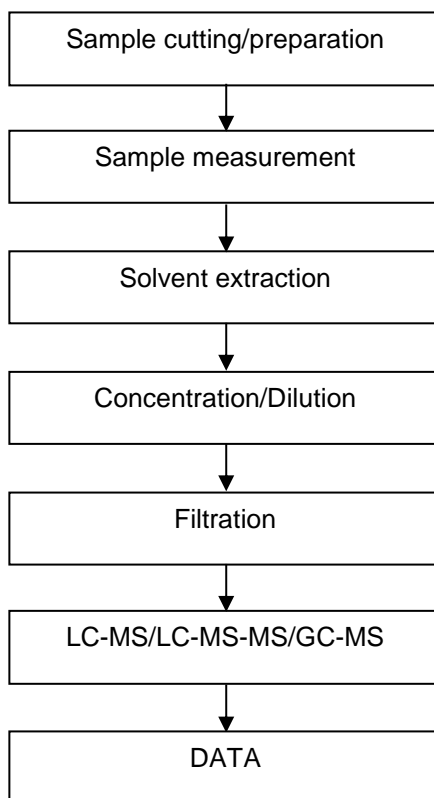
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Date: Feb 14, 2025

Page 28 of 31

ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



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Date: Feb 14, 2025

Page 29 of 31

Sample photos:



17E2115Y4-85SNSN-150SZ



17N2115Q4-173SMSN-150SZ



17C2115AA4-100SMSN-150SZ



17K2115K4-100SMSN-150SZ



17E2115BS84-180RNN-030SZ



DLM50-17E2110L4-N-001SZ



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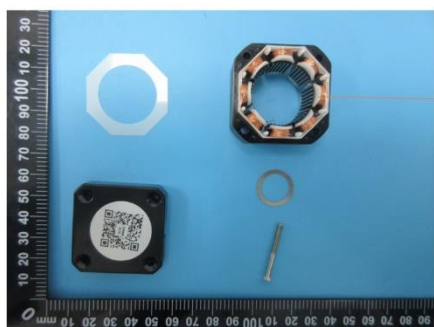
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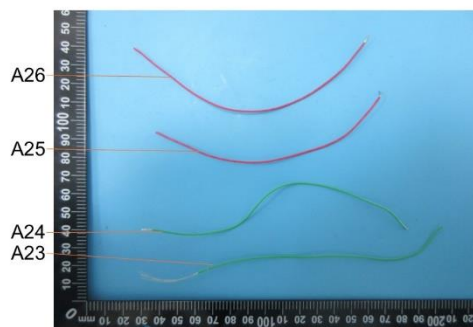
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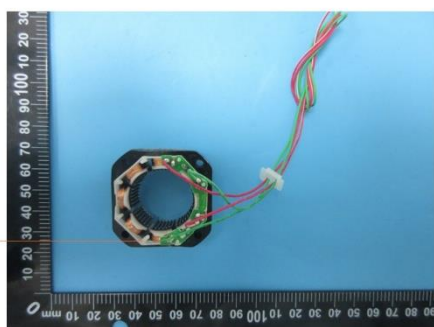


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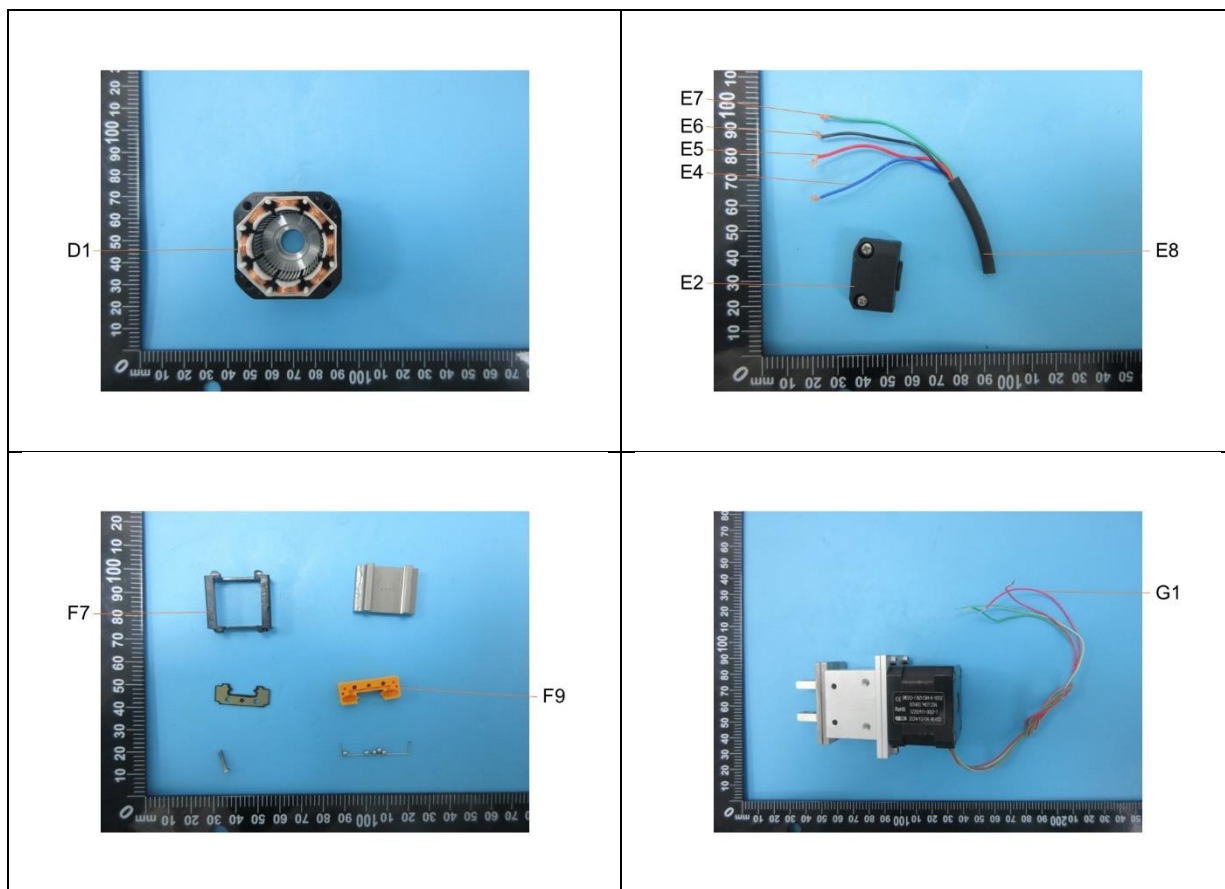
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Test Report (PFAS)

No.: TAOEC24010276101

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Page 31 of 31



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t (86-532) 68999888 www.sgsgroup.com.cn
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