



TEST REPORT

Lab No. : (6225)044-0273
Date : February 21, 2025
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DATE OF SUBMISSION : February 13, 2025

PERFORMANCE PERIOD : February 13, 2025 to February 21, 2025

SAMPLE DESCRIPTION : Coaxial cable

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Extractable Per/ Poly fluoro alkyl substances (PFAS) (As requested by the client, the risk of PFAS in the sample is evaluated. Total amounts of evaluated PFAS are 273 items, including 64 tested items and 209 listed items.	DATA	Test result in page 2-20

REMARK

If there are questions or concerns on this report, please contact:

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TEST RESULT

Extractable Per/ Poly fluoro alkyl substances (PFAS)

Test Method : With reference to DIN EN17681-1:2023.

Test Item(s)	Description(s)
1	Silvery/ light blue plastic (foil)
2	White plastic (insulation)
3	Black plastic (cable jacket)

Maximum Limit:	/
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No.	Parameter	CAS No.	Unit	Result		
				1	2	3
1.	Perfluorobutyric acid (PFBA and its salts)	375-22-4	mg/kg	N.D.	N.D.	N.D.
2.	Perfluorobutanesulfonic acid (PFBS and its salts)	375-73-5	mg/kg	N.D.	N.D.	N.D.
3.	Perfluoropentanoic Acid (PFPA and its salts)	2706-90-3	mg/kg	N.D.	N.D.	N.D.
4.	Perfluoro-n-hexanoic acid (PFHxA and its salts)	307-24-4	mg/kg	N.D.	N.D.	N.D.
5.	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS and its salts)	27619-97-2	mg/kg	N.D.	N.D.	N.D.
6.	Perfluorohexanesulfonic acid (PFHxS and its salts)	355-46-4	mg/kg	N.D.	N.D.	N.D.
7.	Perfluoro-n-heptanoic acid (PFHpA and its salts)	375-85-9	mg/kg	N.D.	N.D.	N.D.
8.	7H-Perfluoroheptanoic acid (HPFHpA)	1546-95-8	mg/kg	N.D.	N.D.	N.D.
9.	Perfluoro-1-heptanesulfonic acid (PFHpS and its salts)	375-92-8 / 60270-55-5	mg/kg	N.D.	N.D.	N.D.
10.	Perfluorooctanesulfonic acid (PFOS and its salts)	1763-23-1 / 56773-42-3	mg/kg	N.D.	N.D.	N.D.
11.	N-Ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	N.D.	N.D.	N.D.
12.	N-methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	mg/kg	N.D.	N.D.	N.D.
13.	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	N.D.	N.D.	N.D.
14.	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	N.D.	N.D.	N.D.
15.	Perfluorooctane Sulfonamide (PFOSA and its salts)	754-91-6	mg/kg	N.D.	N.D.	N.D.

TEST RESULT

Extractable Per/ Poly fluoro alkyl substances (PFAS)

No.	Parameter	CAS No.	Unit	Result		
				1	2	3
16.	Perfluoro-n-octanoic acid (PFOA and its salts)	335-67-1	mg/kg	N.D.	N.D.	N.D.
17.	1H,1H,2H,2H-Perfluorodecanesulphonic acid (8:2 FTS and its salts)	39108-34-4	mg/kg	N.D.	N.D.	N.D.
18.	H2PFDA and its salts	27854-31-5	mg/kg	N.D.	N.D.	N.D.
19.	Perfluoro-n-nonanoic acid (PFNA and its salts)	375-95-1	mg/kg	N.D.	N.D.	N.D.
20.	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)	172155-07-6	mg/kg	N.D.	N.D.	N.D.
21.	Perfluoro-n-decanoic acid (PFDA and its salts)	335-76-2	mg/kg	N.D.	N.D.	N.D.
22.	Perfluoroundecanoic Acid (PFUnDA and its salts)	2058-94-8 or 4234-23-5	mg/kg	N.D.	N.D.	N.D.
23.	Perfluorododecanoic Acid (PFDoDA and its salts)	307-55-1	mg/kg	N.D.	N.D.	N.D.
24.	Perfluorodecane sulfonic acid (PFDS and its salts)	335-77-3	mg/kg	N.D.	N.D.	N.D.
25.	Perfluorotridecanoic Acid (PFTrDA and its salts)	72629-94-8	mg/kg	N.D.	N.D.	N.D.
26.	Perfluorotetradecanoic Acid (PFTeA and its salts)	376-06-7	mg/kg	N.D.	N.D.	N.D.
27.	N-EtFOSA-AC	423-82-5	mg/kg	N.D.	N.D.	N.D.
28.	2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUnA and its salts)	34598-33-9	mg/kg	N.D.	N.D.	N.D.
29.	1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	mg/kg	N.D.	N.D.	N.D.
30.	Perfluorohexadecanoic acid (PFHxDA and its salts)	67905-19-5	mg/kg	N.D.	N.D.	N.D.
31.	Perfluorooctadecanoic Acid (PFODA and its salts)	16517-11-6	mg/kg	N.D.	N.D.	N.D.
32.	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanic acid (HFPO-DA and its salts)	13252-13-6	mg/kg	N.D.	N.D.	N.D.
33.	1H,1H,2H,2H-perfluorohexane sulfonate acid and its salts including 1H,1H,2H,2H-perfluorohexane sulfonate acid (4:2 FTS)	757124-72-4	mg/kg	N.D.	N.D.	N.D.

TEST RESULT

Extractable Per/ Poly fluoro alkyl substances (PFAS)

No.	Parameter	CAS No.	Unit	Result		
				1	2	3
34.	Perfluorooctane sulfonamidoacetic acid (FOSAA)	2806-24-8	mg/kg	N.D.	N.D.	N.D.
35.	2-(NMethylperfluorooctanesulfoamido)acetic acid (N-MeFOSAA)	2355-31-9	mg/kg	N.D.	N.D.	N.D.
36.	NEthylperfluorooctanesulfonamidoacetate (N-EtFOSAA)	2991-50-6	mg/kg	N.D.	N.D.	N.D.
37.	Methyl perfluorooctanoate (PFOA-Me)	376-27-2	mg/kg	N.D.	N.D.	N.D.
38.	Ethyl perfluorooctanoate (PFOA-Et)	3108-24-5	mg/kg	N.D.	N.D.	N.D.
39.	Perfluorooctyl ethyl iodide (8:2 FTI)	2043-53-0	mg/kg	N.D.	N.D.	N.D.
40.	2-Perfluorohexylethanol (FTOH 6:2)	647-42-7	mg/kg	N.D.	N.D.	N.D.
41.	1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA)	17527-29-6	mg/kg	N.D.	N.D.	N.D.
42.	1H,1H,2H,2H-perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	mg/kg	N.D.	N.D.	N.D.
43.	2-(perfluorooctyl)-ethanol (8:2 FTOH)	678-39-7	mg/kg	N.D.	N.D.	N.D.
44.	1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9	mg/kg	N.D.	N.D.	N.D.
45.	1H,1H,2H,2H-Perfluoro-n-decyl methacrylate (8:2 FTMAC)	1996-88-9	mg/kg	N.D.	N.D.	N.D.
46.	2-Perfluorodecylethanol (10:2 FTOH)	865-86-1	mg/kg	N.D.	N.D.	N.D.
47.	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	N.D.	N.D.	N.D.
48.	1H,1H,2H,2H-perfluorodecyltriethoxysilane (PFDTES)	101947-16-4	mg/kg	N.D.	N.D.	N.D.
49.	2-(Perfluorodecyl)ethyl methacrylate (10:2 FTMAC)	2144-54-9	mg/kg	N.D.	N.D.	N.D.
50.	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	N.D.	N.D.	N.D.
51.	1H,1H,2H,2H-perfluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	N.D.	N.D.	N.D.

TEST RESULT

Extractable Per/ Poly fluoro alkyl substances (PFAS)

No.	Parameter	CAS No.	Unit	Result		
				1	2	3
52.	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	N.D.	N.D.	N.D.
53.	Perfluorooctyl ethylene (8:2 FTO)	21652-58-4	mg/kg	N.D.	N.D.	N.D.
54.	2-(Perfluorobutyl) ethanol (FTOH 4:2)	2043-47-2	mg/kg	N.D.	N.D.	N.D.
55.	Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	N.D.	N.D.	N.D.
56.	Perfluoropentane sulfonic acid (PFPeS) and its salts	2706-91-4	mg/kg	N.D.	N.D.	N.D.
57.	Perfluorononanesulfonic acid (PFNS) and its salts	68259-12-1	mg/kg	N.D.	N.D.	N.D.
58.	Perfluorododecanesulfonic acid (PFDOS and its salts)	79780-39-5	mg/kg	N.D.	N.D.	N.D.
59.	4,8-Dioxa-3H-perfluorononanoic acid(ADONA)	919005-14-4	mg/kg	N.D.	N.D.	N.D.
60.	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	mg/kg	N.D.	N.D.	N.D.
61.	2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	812-70-4	mg/kg	N.D.	N.D.	N.D.
62.	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	mg/kg	N.D.	N.D.	N.D.
63.	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	mg/kg	N.D.	N.D.	N.D.
64.	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	mg/kg	N.D.	N.D.	N.D.

Note / Key:

- N.D. = Not detected
- mg/kg = milligram per kilogram = ppm
- Reporting Limit:
 8:2 FTI, FTOH 6:2, 6:2 FTA, 6:2 FTMAC, 8:2 FTOH, 8:2 FTA, 8:2 FTMAC, 10:2 FTOH,
 10:2 FTA, PFDTES, 10:2 FTMAC, 12:2 FTOH, 10:2 FTI, 12:2 FTI, 8:2 FTO, FTOH 4:2,
 PFOI: 0.1 mg/kg ; Other: 0.01 mg/kg (Each)

Remark :

- The result only relates to the tested item. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval. The accreditation relates to competences given in the accreditation certificate.
- Samples test were conducted as per applicant's request.

Extractable PFAS and its salts/derivative are listed in below table.

Classification	Substances
Perfluorobutyric acid (PFBA) and its salts CAS No: 375-22-4	Ammonium perfluorobutanoate (PFBA-NH ₄) (CAS No.: 10495-86-0)
	Sodium perfluorobutanoate (PFBA-Na) (CAS No.: 2218-54-4)
	Potassium heptafluorobutanoate (PFBA-K) (CAS No.: 2966-54-3)
	Silvery perfluorobutanoate (PFBA-Ag) (CAS No. 3794-64-7)
	Lithium perfluorobutanoate (PFBA-Li) (CAS No.: 4146-76-3)
	Heptafluorobutanoic acid-piperazine (1:1) (CAS No.:375-04-2)
	Perfluorobutane sulfonate (PFBS) (CAS No.: 45048-62-2)
Perfluorobutanesulfonic acid (PFBS) and its salts CAS No: 375-73-5	Lithium perfluorobutanesulfonate (PFBS-Li) (CAS No.: 131651-65-5)
	Magnesium perfluorobutanesulfonate (PFBS-Mg) (CAS No.: 507453-86-3)
	Potassium perfluorobutanesulfonate (PFBS-K) (CAS No.: 29420-49-3)
	Perfluorobutanesulfonyl fluoride (PFBS-F) (CAS No.: 375-72-4)
	N,N,N-Triethylehtanaminium 1,1,2,2,3, 3,4,4,4-nonafluorobutane-1-sulfonate (PFBS-N(C ₂ H ₅) ₄) (CAS No.: 25628-08-4)
	Triphenylsulfonium perfluorobutanesulfonate (TPS-PFBS) (CAS No.: 144317-44-2)
	Dimethyl (phenyl) sulfanium nonafluorobutane-1-sulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅) (CAS No.: 220133-51-7)
	Tetrabutyl-phosphonium perfluorobutanesulfonate PFBS-P(C ₄ H ₉) ₄ (CAS No.: 220689-12-3)

Classification	Substances
	N-Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O) (CAS No.: 503155-89-3)
	Ammonium perfluorobutanesulfonate (PFBS-NH ₄) (CAS No.: 68259-10-9)
	Perfluorobutane sulfonic acid hydrate (PFBS-H ₂ O) (CAS No.: 59933-66-3)
	Nonafluorobutanesulfonyl Chloride (PFBS-Cl) (CAS No.: 2991-84-6)
	Sodium perfluorobutanesulfonate (PFBS-Na) (CAS No.: 60453-92-1)
	Bis (4-tert-butylphenyl) iodonium perfluoro-1-butanesulfonate (PFBS-I (C ₆ H ₄) ₂ (C ₄ H ₉) ₂) (CAS No.: 194999-85-4)
	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) (CAS No.: 70225-18-2)
	1-(4-butoxy-1-naphthyl) tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O) (CAS No.: 209482-18-8)
	Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄)) (CAS No.: 108427-52-7)
	Diphenyliodonium nonafluorobutane-1-sulfonate ((PFBS-I(C ₆ H ₅) ₂)) (CAS No.: 19499-82-1)
	Sulfonium, tris[4-(1,1-dimethylethyl phenyl) -, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 241806-75-7)
	Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 425690-64-0)
	Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 867373-18-0)

Classification	Substances
	Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1—butanesulfonate (1:1) (CAS No.: 1015420-87-7)
	1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4,1-butanesulfonate (CAS No.: 905972-83-0)
	1H-Imidazolium, 3-hexyl-1-methyl-1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 1001557-05-6)
	2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 374571-81-0)
	Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 857285-80-4)
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 124472-66-8)
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn) (CAS No.: 502457-69-4)
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) (CAS No.: 56773-55-8)
	Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄) (CAS No.: 25628-17-5)
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride (CAS No.: 36913-91-4)
	Perfluorobutane sulfonate (anion) (CAS No.: 45187-15-3)

Classification	Substances
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, compd. with N,N-diethylethanamine (1:1). (CAS No.:182059-38-7)
	2-hydroxyethyl-dimethyl-octylammonium;1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (CAS No.:334529-55-4)
	1-Hexadecylpyridinium perfluoro-1-butanesulfonate (CAS No.: 334529-62-3) /
	1-Butylpyridinium perfluoro-1-butanesulfonate (CAS No.:334529-64-5)
	N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanesulfonate (CAS No.: 495417-51-1)
	Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1) (CAS No.:722538-68-3)
Perfluoropentane acid (PFPeA) and its salts CAS No: 2706-90-3	Sodium perfluoropentanoate (PFPeA-Na) (CAS No.: 2706-89-0)
	Potassium perfluoropentanoate (PFPeA-K) (CAS No.: 336-23-2)
	Ammonium perfluoropentanoate (PFPeA-NH ₄) (CAS No.: 68259-11-0)
	Lithium perfluoropentanoate (PFPeA-Li) (CAS No.: 198482-22-3)
	Silver perfluoropentanoate (PFPeA-Ag) (CAS No.: 2795-30-4)
	Perfluoropentanoate (anion) (CAS No.: 45167-47-3)
Perfluorohexanoic acid (PFHxA) and its salts CAS No: 307-24-4	Ammonium perfluorohexanoate (APFHx) (CAS No.: 21615-47-4)
	Sodium perfluorohexanoate (PFHxA-Na) (CAS No.: 2923-26-4)
	Potassium perfluorohexanoate (PFHxA-K) (CAS No.: 3109-94-2)
	Perfluorohexanoyl fluoride (PFHxA-F) (CAS No.: 355-38-4)
	Silver perfluorohexanoate (PFHxA-Ag) (CAS No.: 336-02-7)

Classification	Substances
	Lithium perfluorohexanoate (PFHxA-Li) (CAS No.: 90430-61-8)
	Ammonium undecafluorohexanoate (PFHxA-NH ₄) (CAS No.: 21615-47-4)
	Methyl perfluorohexanoate (PFHxA-Me) (CAS No.: 424-18-0)
	Perfluorohexanoyl chloride (PFHxA-Cl) (CAS No.: 335-53-5)
	Perfluorohexanoic anhydride (PFHxO) (CAS No.: 308-13-4)
	Hexanoic acid, undecafluoro-compd. with piperazine (2:1) (8Cl, 9Cl) (CAS No.: 423-47-2)
	Perfluorohexanoate (anion) (CAS No.: 92612-52-7)
Perfluorohexanesulfonic acid (PFHxS) and its salts CAS No: 355-46-4	Perfluorohexanesulfonate Na-salt (PFHxS-Na) (CAS No.: 82382-12-5)
	Perfluorohexanesulfonate K-salt (PFHxS-K) (CAS No.: 3871-99-6)
	Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄) (CAS No.: 68259-08-5)
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) (PFHxS-Li) (CAS No.: 55120-77-9)
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn) (CAS No.: 70136-72-0)
	Perfluorohexylsulfonyl fluoride (PFHxS-F) (CAS No.: 423-50-7)
	Phosphonium, triphenyl (phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP) (CAS No.: 1000597-52-3)
	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate (PFHxS-N(C ₄ H ₉) ₄) (CAS No.: 108427-54-9)
	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (PFHxS-N(C ₂ H ₅) ₄) (CAS No.: 108427-55-0)

Classification	Substances
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (CAS No.: 1187817-57-7)
	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC10H14)3C5H4 (CAS No.: 1310480-24-0)
	Methanaminium, N-[4-[[4-(diethylamino)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-(NC8H10)2C13H12 (CAS No.: 1310480-27-3)
	Methanaminium, N-[4-[[4-(diethylamino)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-(NC8H10)2C17H12 (CAS No.: 1310480-28-4)
	Beta-Cyclodextrin, compd. With 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate (PFHxS-C42H70O35) (CAS No.: 1329995-45-0)
	Gamma-Cyclodextrin, compd. With 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion (1-)(1:1) (PFHxS-C48H80O40) (CAS No.: 1329995-69-8)
	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS) (CAS No.: 144116-10-9)

Classification	Substances
	Quinolinium, 1-(carboxymethyl)-(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-C44H37N2O2) (CAS No.: 1462414-59-0)
	Iodonium, diphenyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C6H5)2) (CAS No.: 153443-35-7)
	Methanamiium, 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) (CAS No.: 189274-31-5)
	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-NH2(CH3)3) (CAS No.: 202189-84-2)
	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(C6H4)2(C4H9)2) (CAS No.: 213740-81-9)
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl) (PFHxS-Ga) (CAS No.: 341035-71-0)
	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(C7H7)2C6H5) (CAS No.: 341548-85-4)
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc) (CAS No.: 350836-93-0)
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd) (CAS No.: 41184-65-0)
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y) (CAS No.: 41242-12-0)

Classification	Substances
	Sulfonium, 9thiodi-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) (PFHS-S3(C6H5)4(C6H4)2) (CAS No.: 421555-73-9)
	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(C6H4)2(C5H11)2) (CAS No.: 421555-74-0)
	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(C6H4)3(C4H9)3)(CAS No.: 425670-70-8)
	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFHxS-NH(C2H5O)2) (CAS No.: 70225-16-0)
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) hylethanamine (1:1) (PFHxS-N(C2H5)3) (CAS No.: 72033-41-1)
	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(C6H4)2(C4H9)2) (CAS No.: 866621-50-3)
	Sulfonium, (4-methylphenyl) diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C6H5)2C7H7 (CAS No.: 910606-39-2)
	Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C6H5)2C10H9O2) (CAS No.: 911027-68-4)
	Cesium perfluorohexanesulfonate (PFHxS-Cs) (CAS No.: 92011-17-1)

Classification	Substances
	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-SC28H31O4) (CAS No.: 928049-42-7)
	Perfluorohexylsulfonyl chloride (PFHxS-Cl) (CAS No.: 55591-23-6)
Perfluoroheptane acid (PFHpA) and its salts CAS No: 375-85-9	Sodium perfluoroheptanoate (PFHpA-Na) (CAS No.: 20109-59-5)
	Potassium perfluoroheptanoate (PFHpA-K) (CAS No.: 21049-36-5)
	Ammonium perfluoroheptanoate (PFHpA-NH ₄) (CAS No.: 6130-43-4)
	Cesium perfluoroheptanoate (PFHpA-Cs) (CAS No.: 171198-24-6)
	Silver perfluoroheptanoate (PFHpA-Ag) (CAS No.: 424-05-5)
	Lithium perfluoroheptanoate (PFHpA-Li) (CAS No.: 60871-90-1)
Perfluoroheptanesulfonic acid (PFHpS) and its salts CAS No.: 375-92-8	Sodium perfluoroheptanesulfonate (PFHpS-Na) (CAS No.: 21934-50-9)
	Potassium perfluoroheptanesulfonate (PFHpS-K) (CAS No.: 60270-55-5)
	Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄) (CAS No.: 68259-07-4)
	Lithium perfluoroheptanesulfonate (PFHpS-Li) (CAS No.: 117806-54-9)
	Perfluoroheptane sulfonate (CAS No.: 146689-46-5)
	Triethylammonium perfluoroheptane sulfonate (CAS No.: 72033-40-0)
	Tetraethylammonium perfluoroheptane sulfonate (CAS No.: 439863-97-5)
Perfluorooctansulfonic acid (PFOS) and its salts CAS No.: 1763-23-1	Potassium perfluorooctane sulfonate (PFOS-K) (CAS No.: 2795-39-3)
	Lithium perfluorooctane sulfonate (PFOS-Li) (CAS No.: 29457-72-5)

Classification	Substances
	Ammonium perfluorooctane sulfonate (PFOS-NH ₄) (CAS No.: 29081-56-9)
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂) (CAS No.: 70225-14-8)
	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) (CAS No.: 56773-42-3)
	N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂) (CAS No.: 2510099-16-8)
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg) (CAS No.: 91036-71-4)
	Perfluoro-1-octanesulfonyl fluoride (PFOS-F) (CAS No.: 307-35-7)
	Sodium perfluorooctane sulfonate (PFOS-Na) (CAS No.: 4021-47-0)
	Piperidinium perfluorooctanesulfonate (PFOS-Pip) (CAS No.: 71463-74-6)
	Tetrabutylammonium perfluorooctanesulfonate (PFOS-TBA) (CAS No.: 111873-33-7)
	Perfluorooctanesulfonate (CAS No.: 45298-90-6)
	Triethylammonium perfluorooctane sulfonate (CAS No.: 54439-46-2)
	Tetramethylammonium perfluorooctane sulfonate (CAS No.: 56773-44-5)
	N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (CAS No.: 56773-56-9)
	N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (CAS No.: 124472-68-0)

Classification	Substances
	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1) (CAS No.: 213740-80-8)
	Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate (CAS No.: 258341-99-0)
	1-Hexadecylpyridinium perfluoro-1-octanesulfonate (CAS No.: 334529-63-4)
	N,N,N-Triethyldecyl-1-aminium heptadecafluorooctane-1-sulfonate (CAS No.: 773895-92-4)
	Tetrabutylphosphoniumperfluorooctanesulfonate (CAS No.: 2185049-59-4)
Perfluorooctane Sulfonamide (PFOSA) and its salts CAS No.: 754-91-6	Perfluorooctanesulfonamide lithium salt (1:1)(PFOSA-Li) (CAS No.:76752-79-9)
	Perfluorooctanesulfonamide sodium salt (PFOSA-Na) (CAS No.:76752-78-8)
	Perfluorooctanesulfonamide potassium salt (PFOSA-K) (CAS No.:76752-70-0)
	Perfluorooctanesulfonamide ammonium salt (PFOSA-NH ₄) (CAS No.:76752-72-2)
Perfluorooctanoic acid (PFOA) and its salts CAS No.: 335-67-1	Sodium perfluorooctanoate (PFOA-Na) (CAS No.: 335-95-5)
	Lithium perfluorooctanoate (PFOA-Li) (CAS No.: 17125-58-5)
	Potassium perfluorooctanoate (PFOA-K) (CAS No.: 2395-00-8)
	Silver perfluorooctanoate (PFOA-Ag) (CAS No.: 335-93-3)
	Perfluorooctanoate fluoride (PFOA-F) (CAS No.: 335-66-0)
	Ammonium perfluorooctanoate (APFO) (CAS No.: 3825-26-1)
	Cesium perfluorooctanoate (PFOA-Cs) (CAS No.:17125-60-9)
	Cobalt perfluorooctanoate (PFOA-Co) (CAS No.:35965-01-6)
	Chromium(3+) perfluorooctanoate (PFOA-Cr) (CAS No.:68141-02-6)

Classification	Substances
	Perfluorooctanoyl chloride (PFOA-Cl) (CAS No.:335-64-8)
	Tetramethylammonium perfluorooctanoate (PFOA-TMA) (CAS No.: 32609-65-7)
	Tetraethylammonium perfluorooctanoate (PFOA-TEA) (CAS No.: 98241-25-9)
	Tetrapropylammonium perfluorooctanoate (PFOA-TPA) (CAS No.: 277749-00-5)
	Pentadecafluorooctanoic acid- piperazine (1:1) (PFOA-PZ) (CAS No.: 423-52-9)
	Pentadecafluorooctanoate (anion) (CAS No.:45285-51-6)
	Perfluorooctanoic anhydride (CAS No.: 33496-48-9)
Perfluorononane Acid (PFNA) and its salts CAS No.: 375-95-1	Sodium heptadecafluorononanoate (PFNA-Na) (CAS No.: 21049-39-8)
	Perfluorononanoate ammonium salt (PFNA-NH ₄) (CAS No.: 4149-60-4)
	Potassium perfluorononanoate (PFNA-K) (CAS No.: 21049-38-7)
	Lithium perfluorononanoate (PFNA-Li) (CAS No.: 60871-92-3)
	Silver perfluorononanoate (PFNA-Ag) (CAS No.: 7358-16-9)
	Methanaminium perfluorononanoate (PFNA-MA) (CAS No.:77032-23-6)
	Piperidinium perfluorononanoate (PFNA-Pip) (CAS No.:95682-66-9)
	Cyclohexanaminium perfluorononanoate (PFNA-CHA) (CAS No.:328531-06-2)
	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-N(C ₄ H ₁₁)) (CAS No.: 77032-27-0)
	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-N(C ₂ H ₇)) (CAS No.: 77032-24-7)

Classification	Substances
	Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9Cl) (PFNA-N(C ₆ H ₁₅)) (CAS No.: 327176-80-7)
	Nonanoic acid, heptadecafluoro-compd. with piperidine (1:1) (9Cl) (PFNA-N(C ₅ H ₁₁)) (CAS No.: 95682-66-9)
	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-N(C ₆ H ₇)) (CAS No.: 95682-67-0)
	Nonanoic acid, heptadecafluoro- compd. with cyclohexanamine (1:1)(9Cl)(PFNA-N(C ₆ H ₁₃)) (CAS No.: 328531-06-2)
	Perfluorononanoate (anion) (CAS No.: 72007-68-2)
Perfluorodecane Acid (PFDA) and its salts CAS No.: 335-76-2	Sodium nonadecafluorodecanoate (PFDA-Na) (CAS No.: 3830-45-3)
	Perfluorodecanoate ammonium salt (PFDA-NH ₄) (CAS No.: 3108-42-7)
	Potassium perfluorodecanoate (PFDA-K) (CAS No.: 51604-85-4)
	Silver perfluorodecanoate (PFDA-Ag) (CAS No.: 5784-82-7)
	Lithium perfluorodecanoate (PFDA-Li) (CAS No.: 84743-32-8)
Perfluoroundecanoic Acid (PFUnDA) and its salts CAS No.: 2058-94-8	Ammonium perfluoroundecanoate (PFUnDA-NH ₄) (CAS No.: 4234-23-5)
	Sodium perfluoroundecanoate (PFUnDA-Na) (CAS No.: 60871-96-7)
	Potassium perfluoroundecanoate (PFUnDA-K) (CAS No.: 30377-53-8)
Perfluorododecanoic Acid (PFDoDA) and its salts CAS No.: 307-55-1	Ammonium tricosafuorododecanoate (PFDoDA-NH ₄) (CAS No.: 3793-74-6)
	Sodium perfluorododecanoate (PFDoDA-Na) (CAS No.: 60872-01-7)
Perfluorodecane sulfonic Acid (PFDS) CAS No: 335-77-3	Sodium perfluorodecanesulfonate (PFDS-Na) and its salts (CAS No.: 2806-15-7)

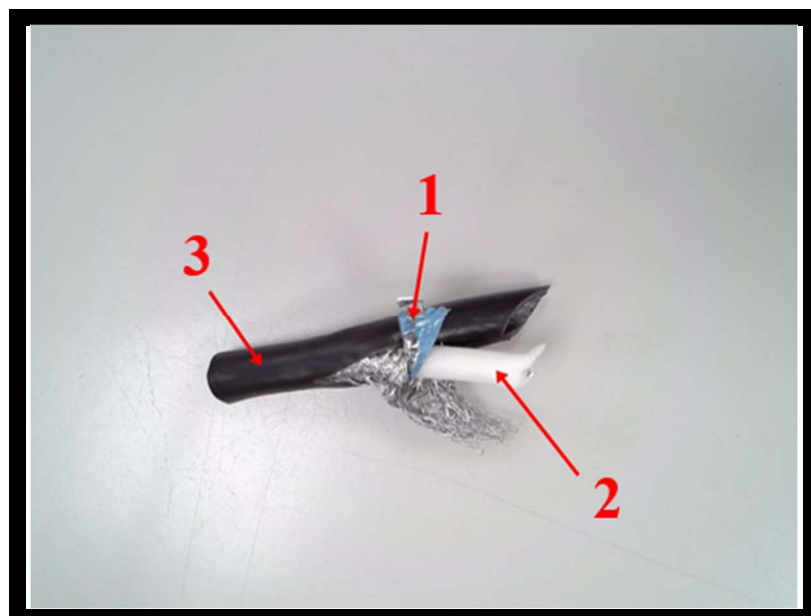
Classification	Substances
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) and its salts CAS No.: 13252-13-6	Potassium perfluorodecanesulfonate (PFDS-K) (CAS No.: 2806-16-8)
	Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄) (CAS No.: 67906-42-7)
	Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionate (HFPO-DA-K) (CAS No.: 67118-55-2)
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, ammonium salt (HFPO-DA-NH ₄) (CAS No.: 62037-80-3)
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionyl fluoride (HFPO-DA-F) (CAS No.: 2062-98-8)
	(+)-Perfluoro(2-propoxypropionic) acid (CAS No.: 75579-39-4)
	(-)-Perfluoro(2-propoxypropionic) acid (CAS No.: 75579-40-7)
	Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate (CAS No.: 67963-75-1)
	Perfluoro(2-propoxypropanoate) (CAS No.: 122499-17-6)
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanoic acid—N-propylpropan-1-amine (1/1) (CAS No.: 165951-17-7)
	Triethylaminium perfluoro-2-propoxypropanoate (CAS No.: 165951-18-8)
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionyl fluoride (HFPO-DA-F) (CAS No.: 298703-31-8)
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA / 8:3 FTCA) and its salts CAS No.: 34598-33-9	Potassium 2H, 2H, 3H, 3H-Perfluoroundecanoate (8:3 FTCA-K) (CAS No.: 83310-58-1)

Classification	Substances
Perfluoropentane sulfonic acid (PFPeS) and its salts CAS No.: 2706-91-4	Sodium perfluoropentanesulfonate (PFPeS-Na) (CAS No.: 630402-22-1)
	Potassium perfluoropentane-1-sulphonate (PFPeS-K) (CAS No.: 3872-25-1)
	Ammonium perfluoropentanesulfonate (PFPeS-NH ₄) (CAS No.: 68259-09-6)
	Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li) (CAS No.: 1046864-81-6)
	Perfluoropentane sulfonate anion (CAS No.: 175905-36-9)
	Triethylammonium perfluoropentane sulfonate (CAS No.: 72033-42-2)
Perfluorodecane sulfonic acid (PFDS) and its salts CAS No.: 335-77-3	Sodium perfluorodecanesulfonate (CAS No.: 2806-15-7)
	Potassium perfluorodecanesulfonate (CAS No.: 2806-16-8)
	Ammonium perfluorodecanesulfonate (CAS No.: 67906-42-7)
	Perfluorodecanesulfonate (anion) (CAS No.: 126105-34-8)
Perfluorododecane sulfonic acid and its salts (PFDoS) CAS No.: 79780-39-5	Sodium perfluorododecane sulfonate (PFDoS-Na) (CAS No.: 1260224-54-1)
	Potassium perfluorododecane sulfonate (PFDoDS-K) (CAS No.: 85187-17-3)
	Perfluorododecane sulfonate (anion) (CAS No.: 343629-43-6)
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) and its salts CAS No.: 919005-14-4	Sodium dodecafluoro-3H-4,8- dioxanonanate (ADONA-Na) (CAS No.: 2250081-67-3)
	Ammonium 4,8-dioxa-3H- perfluorononanate (ADONA-NH ₄) (CAS No.:958445-44-8)
7H-Perfluoroheptanoic acid (7H-PFHpA) and its salts CAS No.: 1546-95-8	Sodium 7H-perfluoroheptanoate (7H-PFHpA-Na) (CAS No.:958445-44-8)
	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (7H-PFHpA-NH ₄) (CAS No.:958445-44-8)

Photo of the Submitted Sample



Sample



Sample