

Test Report No. 5988071

Date : 29-Aug-2024

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Client : Prepack Thailand Co., Ltd.
30/145,Moo1,
Khok Kham, Muang Samutsakhon, Samut Sakorn 74000 Thailand

The following sample(s) was/were submitted and identified by client as:

Sample Name : OPP/ALU/LLDPE
Sample Description : Plastic bag
Manufacturer/Vendor : PREPACK THAILAND CO., LTD.
Country of Origin : Thailand

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 6303727
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack
Sample Receiving Date : 22-Aug-2024
Testing Period : 22-Aug-2024 to 29-Aug-2024

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

Signed for and on behalf of
SGS (Thailand) Ltd.



Rutchuporn Mounksom
Toys and Hardlines Laboratory Manager



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Test Requested & Result Summary

Test Requested : Please refer to the result summary (Test parameter(s) was/were selected by client).

Result Summary:

Test Requested	Conclusion
PFAS target analysis	INFO only

Remark: Test results in this report are applicable for the item tested and reflects the tested sample as received.

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TEST RESULTS

Perfluorinated and Polyfluorinated Chemical (PFAS)***

Test Method: With reference to EN ISO 23702-1:2023, EN 17681-1:2022 and EN 17681-2:2022. Analysis was conducted by HPLC-MS/MS and GC-MS.

Individual Result

Test Item(s):	CAS-No.	Result (1) (mg/kg)	Reporting limit (mg/kg)
PFOS, its salts and related compounds	--	--	--
Perfluorooctanesulfonic acid (PFOS), its salts #	1763-23-1	n.d.	0.01
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	n.d.	0.01
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	n.d.	0.01
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	n.d.	0.01
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	n.d.	0.01
Perfluorooctane sulfonamide (PFOSA), its salts #	754-91-6	n.d.	0.01
Sum of PFOS, its salts and related compounds	--	n.d.	-

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TEST RESULTS

Test Item(s):	CAS-No.	Result (1) (mg/kg)	Reporting limit (mg/kg)
PFOA, its salts	--	--	--
Perfluorooctanoic acid (PFOA), its salts#	335-67-1	n.d.	0.01
PFOA-related compounds	--	--	--
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) @ its salts #	39108-34-4	n.d.	0.10
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	n.d.	0.10
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	n.d.	0.10
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) @	27905-45-9	n.d.	0.10
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) @	1996-88-9	n.d.	0.10
Perfluoro-1-iodooctane (PFOI)	507-63-1	n.d.	0.10
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA) @, its salts #	27854-31-5	n.d.	0.10
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) @	678-39-7	n.d.	0.10
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) @	2043-53-0	n.d.	0.10
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3) @	101947-16-4	n.d.	0.10
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-hepta decafluorodecyl) hydrogen phosphate (8:2 diPAP) @ its salts #	678-41-1	n.d.	0.10

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TEST RESULTS

Test Item(s):	CAS-No.	Result (1) (mg/kg)	Reporting limit (mg/kg)
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnDA / 8:3 FTCA) @ its salts #	34598-33-9	n.d.	0.10
1H,1H,2H-Heptadecafluoro-1-decene (PFDE) @	21652-58-4	n.d.	0.10
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	n.d.	0.10
Sum of PFOA-related compounds	-	n.d.	-

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Test Item(s):	Cas No.	Result (1) (mg/kg)	Reporting limit (mg/kg)
C9-C14 PFCA, their salts	--	--	--
Perfluorononane Acid (PFNA), its salts #	375-95-1	n.d.	0.01
Perfluorodecane Acid (PFDA), its salts #	335-76-2	n.d.	0.01
Perfluoroundecanoic Acid (PFUnDA), its salts #	2058-94-8	n.d.	0.01
Perfluorododecanoic Acid (PFDoA), its salts #	307-55-1	n.d.	0.01
Perfluorotridecanoic Acid (PFTrDA), its salts #	72629-94-8	n.d.	0.01
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	n.d.	0.01
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	n.d.	0.01
Sum of C9-C14 PFCA, its salts	-	n.d.	-

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Test Item(s):	Cas No.	Result (1) (mg/kg)	Reporting limit (mg/kg)
C9-C14 PFCA-related substances	--	--	--
Perfluorodecane sulfonic Acid (PFDS), its salts #	335-77-3	n.d.	0.10
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	n.d.	0.10
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	n.d.	0.10
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	n.d.	0.10
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	n.d.	0.10
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	n.d.	0.10
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	n.d.	0.10
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	n.d.	0.10
Perfluorononane sulfonic acid (PFNS), its salts #	68259-12-1	n.d.	0.10
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	n.d.	0.10
Perfluorododecane sulfonic acid (PFDoDS), its salts #	79780-39-5	n.d.	0.10
Perfluorotridecane sulfonic acid (PFTrDS), its salts#	791563-89-8	n.d.	0.10
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	n.d.	0.10

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Perfluorodecyl iodide (PFDI)	423-62-1	n.d.	0.10
Perfluorododecyl iodide (PFDoDI)	307-60-8	n.d.	0.10
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) @	39108-34-4	n.d.	0.10
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) @	27905-45-9	n.d.	0.10
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) @	1996-88-9	n.d.	0.10
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA) @, its salts #	27854-31-5	n.d.	0.10
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) @	678-39-7	n.d.	0.10
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) @	2043-53-0	n.d.	0.10
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3) @	101947-16-4	n.d.	0.10
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hepta decafluorodecyl) hydrogen phosphate (8:2 diPAP)# @	678-41-1	n.d.	0.10
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnDA / 8:3 FTCA)# @	34598-33-9	n.d.	0.10
1H,1H,2H-Heptadecafluoro-1-decene (PFDE) @	21652-58-4	n.d.	0.10
Sum of C9-C14-related substances	-	n.d.	-

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PFHxS, its salts	--	--	--
Perfluorohexanesulfonic acid (PFHxS) #	355-46-4	n.d.	0.01
PFHxS-related compounds	--	--	--
N-Methylperfluoro-1-hexane sulfonamide (N-Me-FHxSA)	68259-15-4	n.d.	0.10
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	n.d.	0.10
N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	n.d.	0.10
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	n.d.	0.50
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro hexyl)sulfonyl]amino]ethyl ester	67584-61-6	n.d.	0.10
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohe xyl)sulfonyl]amino]ethyl ester	67906-70-1	n.d.	0.10
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	n.d.	0.10
Glycine, N-ethyl-N-[[1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)s ulfonyl]-	68957-32-4	n.d.	0.10
Sum of PFHxS-related compounds	-	n.d.	-

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Other PFAS	--	--	--
Perfluorohexane acid (PFHxA), its salts #	307-24-4	n.d.	0.10
Perfluorobutane acid (PFBA), its salts #	375-22-4	n.d.	1
Perfluorobutanesulfonic acid (PFBS), its salts #	375-73-5	n.d.	1
Perfluoropentane acid (PFPeA), its salts #	2706-90-3	n.d.	1
Perfluoroheptane acid (PFHpA), its salts #	375-85-9	n.d.	1
Perfluoroheptanesulfonic acid (PFHpS), its salts #	375-92-8	n.d.	1
7H-Dodecanefluoroheptane acid (HPFHpA), its salts #	1546-95-8	n.d.	1
Perfluorooctanesulphonic acid 1H,1H,2H,2H (6:2 FTS), its salts#	27619-97-2	n.d.	1
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	n.d.	1
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	n.d.	1
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	n.d.	1
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (HPFO-DA), its salts #	13252-13-6	n.d.	1
1H, 1H, 2H, 2H-Perfluorohexanesulfonic Acid (4:2 FTS), its salts#	757124-72-4	n.d.	1
Perfluorooctane sulfonamidoacetic acid (FOSAA)	2806-24-8	n.d.	1

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N-Methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	n.d.	1
N-Ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	n.d.	1
Perfluoropentane sulfonic acid (PFPeS), its salts #	2706-91-4	n.d.	1
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	n.d.	1
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	n.d.	1
Hexadecanoic acid, hentriacontafuoro- (PFHxDA)	67905-19-5	n.d.	1
Octadecanoic acid, pentatriacontafuoro- (PFODA)	16517-11-6	n.d.	1
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	n.d.	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	n.d.	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	n.d.	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	n.d.	1
Nonafuoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	n.d.	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	n.d.	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	n.d.	1

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TEST RESULTS

Test Item(s):	CAS-No.	Result (1) (mg/kg)	Reporting limit (mg/kg)
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	n.d.	1
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	n.d.	1
Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	n.d.	1
1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	n.d.	1
2-(N-ethylperfluorooctanesulfamido)ethyl acrylate (EtFOSAC)	423-82-5	n.d.	1
Perfluorooctyl triethoxysilane (POTS)	51851-37-7	n.d.	1
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	n.d.	1
Perfluorobutane sulfon amides	30334-69-1	n.d.	1
1,1,2,2,3,3,4,4,4-Nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamide	34454-97-2	n.d.	1
11H-Perfluoroundecanoic acid (11H-PFUnDA), its salts#	1765-48-6	n.d.	1
Overall Conclusion	--	INFO only	--

Sample Description:

1. Aluminium foil / clear plastic bag with multicolor printed

Note:

1. n.d. = not detected
2. @ PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances
3. # Substances refer to its salts/derivative listed in Appendix 1

Requirement:

All listed PFAS: Information only

Remark : The test item(s) marked *** on test report is/are analyzed at SGS (Thailand) Limited, address: 10, 10/1 - 4 and 12 Soi Rama III S. 59, Chong Nonsi, Yan Nawa, Bangkok.

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TEST RESULTS

Appendix 1 - List of PFAS its salts & derivatives

Note: Salts of listed PFAS is subjected to the detection of its parent

Substances	CAS No.	Substances	CAS No.
PFOA, its salts & derivatives			
Perfluorooctanoic Acid (PFOA)	335-67-1	Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA)	2395-00-8	Ammonium perfluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5		
8:2 FTCA, its salts			
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA)	27854-31-5	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C4H9)4)	882489-14-7

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Substances	CAS No.	Substances	CAS No.
PFOS, its salts & derivatives			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
Potassium perfluorooctane sulfonate (PFOS-K)	2795-39-3	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) / PFOS-TEA	56773-42-3
Sodium perfluorooctane sulfonate (PFOS-Na)	4021-47-0	Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
Lithium perfluorooctane sulfonate (PFOS-Li)	29457-72-5	Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Ammonium perfluorooctane sulfonate (PFOS-NH ₄)	29081-56-9	Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	--	--
PFNA, its salts			
Perfluorononane Acid (PFNA)	375-95-1	Potassium perfluorononanoate (PFNA-K)	21049-38-7
Sodium heptadecafluorononanoate (PFNA-Na)	21049-39-8	Lithium perfluorononanoate (PFNA-Li)	60871-92-3
Perfluorononanoate ammonium salt (PFNA-NH ₄)	4149-60-4	Silver perfluorononanoate (PFNA-Ag)	7358-16-9

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Substances	CAS No.	Substances	CAS No.
PFDA, its salts			
Perfluorodecane Acid (PFDA)	335-76-2	Perfluorodecanoate ammonium salt (PFDA-NH4)	3108-42-7
Sodium nonadecafluorodecanoate (PFDA-Na)	3830-45-3	Potassium perfluorodecanoate (PFDA-K)	51604-85-4
Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
PFUnDA, its salts			
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	Ammonium perfluoroundecanoate (PFUnDA-NH4)	4234-23-5
Sodium perfluoroundecanoate (PFUnDA-Na)	60871-96-7	Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2		
PFDoDA, its salts			
Perfluorododecanoic Acid (PFDoDA)	307-55-1	Ammonium tricosafuorododecanoate (PFDoDA-NH4)	3793-74-6
Sodium perfluorododecanoate (PFDoDA-Na)	60872-01-7		
PFDS, its salts			
Perfluorodecane sulfonic Acid (PFDS)	335-77-3	Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8
Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	Perfluorodecanesulfonic acid ammonium salt (PFDS-NH4)	67906-42-7

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Substances	CAS No.	Substances	CAS No.
8:3 FTCA, its salts			
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA)	34598-33-9	Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1
PFHxS, its salts & derivatives			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	Bis(4-tert-butylphenyl)iodanium tridecafluorohexane-1-sulfonate	213740-81-9
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)	82382-12-5	Bis(4-methylphenyl)(phenyl)sulfanium tridecafluorohexane-1-sulfonate	341548-85-4
Potassium perfluorohexane-1-sulphonate (PFHxS-K)	3871-99-6	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with perfluorohexanesulfonic acid (1:2)	421555-73-9
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9	Perfluorohexanesulfonic acid, Gallium(3+) salt (3:1) (PFHxS-Ga)	341035-71-0
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH4)	68259-08-5	Perfluorohexanesulfonic acid, Scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
Benzyltriphenylphosphanium tridecafluorohexane-1-sulfonate (PFHxS-BTPP)	1000597-52-3	Perfluorohexanesulfonic acid, Neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
N,N,N-Tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9	Perfluorohexanesulfonic acid, Yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0

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TEST RESULTS

Substances	CAS No.	Substances	CAS No.
Tetraethylammonium perfluorohexane sulfonate	108427-55-0	Cesium perfluorohexanesulfonate (PFHxS-Cs)	92011-17-1
Tridecafluorohexane-1-sulfonic acid-pyrrolidine	1187817-57-7	Perfluorohexanesulfonic acid, Zinc salt (PFHxS-Zn)	70136-72-0
4-[[4-(Diethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-diethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-24-0	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, perfluorohexanesulfonate (1:1)	421555-74-0
4-[[4-(Dimethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-27-3	Tris(4-tert-butylphenyl)sulfonium tridecafluorohexane-1-sulfonate	425670-70-8
4-[[4-(Dimethylamino)phenyl][4-(phenylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-28-4	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-45-0	Triethylammonium perfluorohexane sulfonate	72033-41-1
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-69-8	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with perfluorohexanesulfonic acid (1:1)	866621-50-3
Triphenylsulfonium tridecafluorohexane-1-sulfonate (TPS-PFHxS)	144116-10-9	(4-Methylphenyl)diphenylsulfonium tridecafluorohexane-1-sulfonate	910606-39-2

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Substances	CAS No.	Substances	CAS No.
1-(Carboxymethyl)-4-(2-{4-[4-(2,2-diphenylethenyl)phenyl]-1H,2H,3H,3aH,4H,8bH-cyclopenta[b]indol-7-yl}ethenyl)quinolin-1-ium tridecafluorohexane-1-sulfonate	1462414-59-0	{4-[(2-Methylprop-2-enoyl)oxy]phenyl}diphenylsulfanium tridecafluorohexane-1-sulfonate	911027-68-4
Diphenyliodonium tridecafluorohexane-1-sulfonate	153443-35-7	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacycloptadecinium, 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)	928049-42-7
Tetramethylammonium perfluorohexane sulfonate (PFHxS-TMA)	189274-31-5	Perfluorohexylsulfonyl fluoride (PFHxS-F)	423-50-7
Tert-butylazanium; 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	202189-84-2	Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5		

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Substances	CAS No.	Substances	CAS No.
PFHxA, its salts & derivatives			
Perfluorohexane Acid (PFHxA)	307-24-4	Potassium perfluorohexanoate (PFHxA-K)	3109-94-2
Ammonium perfluorohexanoate (APFHx)	21615-47-4	Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8		
PFBA, its salts			
Perfluorobutane Acid (PFBA)	375-22-4	Ammonium perfluorobutanoate (PFBA-NH4)	10495-86-0
Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	Silver perfluorobutanoate (PFBA-Ag)	3794-64-7
Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	Lithium perfluorobutanoate (PFBA-Li)	4146-76-3

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Substances	CAS No.	Substances	CAS No.
PFBS, its salts & derivatives			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	Tetrabutyl-phosphonium perfluorobutanesulfonate	220689-12-3
Potassium perfluorobutanesulfonate (PFBS-K)	29420-49-3	N,N,N,-Triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate	25628-08-4
Perfluorobutane sulfonic acid hydrate (PFBS-H ₂ O)	59933-66-3	N-Morpholinium perfluorobutanesulfonate	503155-89-3
Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate	194999-85-4
Lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-18-2
Ammonium perfluorobutanesulfonate (PFBS-NH ₄)	68259-10-9	Perfluorobutanesulfonyl fluoride (PFBS-F)	375-72-4
Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	Perfluorobutanesulphonyl chloride (PFBS-Cl)	2991-84-6
Triphenylsulfonium perfluorobutanesulfonate (TPS-PFBS)	144317-44-2	Sulfonium, dimethylphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	220133-51-7
Thiophenium, 1-(4-butoxy-1-naphthalenyl)tetrahydro-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	209482-18-8		

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Substances	CAS No.	Substances	CAS No.
PFPeA, its salts			
Perfluoropentane Acid (PFPeA)	2706-90-3	Potassium perfluoropentanoate (PFPeA-K)	336-23-2
Sodium perfluoropentanoate (PFPeA-Na)	2706-89-0	Ammonium perfluoropentanoate (PFPeA-NH4)	68259-11-0
Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4
PFHpA, its salts			
Perfluoroheptane Acid (PFHpA)	375-85-9	Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5
Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	Ammonium perfluoroheptanoate (PFHpA-NH4)	6130-43-4
Caesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5
Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1		

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TEST RESULTS

Substances	CAS No.	Substances	CAS No.
PFHpS, its salts			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5
Sodium perfluoroheptanesulfonate (PFHpS-Na)	21934-50-9	Ammonium perfluoroheptanesulfonate (PFHpS-NH4)	68259-07-4
Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9		
HFPO-DA, its salts & derivatives			
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (HFPO-DA)	13252-13-6	Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate (HFPO-DA-K)	67118-55-2
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, ammonium salt (HFPO-DA-NH4)	62037-80-3	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionyl fluoride (HFPO-DA-F)	2062-98-8

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TEST RESULTS

Substances	CAS No.	Substances	CAS No.
PFPeS, its salts			
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1
Sodium perfluoropentanesulfonate (PFPeS-Na)	630402-22-1	Ammonium perfluoropentanesulfonate (PFPeS-NH4)	68259-09-6
PFNS, its salts			
Perfluorononane sulfonic acid (PFNS)	68259-12-1	Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5
Sodium perfluorononanesulfonate (PFNS-Na)	98789-57-2	Ammonium nonadecafluorononanesulphonate (PFNS-NH4)	17202-41-4
PFDoDS, its salts			
Perfluorododecane sulfonic acid (PFDoDS)	79780-39-5	Sodium perfluorododecanesulfonate (PFDoDS-Na)	1260224-54-1
PFTrDS, its salts			
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	Sodium perfluorotridecanesulfonate (PFTrDS-Na)	174675-49-1
8:2 diPAP, its salts			
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hepta decafluorodecyl) hydrogen phosphate (8:2 diPAP)	678-41-1	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2 diPAP-Na)	114519-85-6

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TEST RESULTS

Substances	CAS No.	Substances	CAS No.
8:2 FTS, its salts			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1
Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)	438237-73-1	Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH4)	149724-40-3
PFOSA, its salts			
Perfluorooctane sulfonamide (PFOSA)	754-91-6	Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
PFTrDA, its salts			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	Ammonium perfluorotridecanoate (PFTrDA-NH4)	4288-72-6
11H-PFUnDA, its salts			
11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-NH4)	5081-02-7
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		

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TEST RESULTS

Substances	CAS No.	Substances	CAS No.
HPFHpA, its salts			
7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH4)	376-34-1
Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7		
6:2 FTS, its salts			
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	6:2 Fluorotelomer sulfonate ammonium salt (6:2 FTS-NH4)	59587-39-2
6:2 Fluorotelomer sulfonate sodium salt (6:2 FTS-Na)	27619-94-9	1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tri decafluoro-, barium salt (2:1) (6:2 FTS-Ba)	1807944-82-6
6:2 Fluorotelomer sulfonate potassium salt (6:2 FTS-K)	59587-38-1		
4:2 FTS, its salts			
1H, 1H, 2H, 2H-Perfluorohexanesulfonic Acid (4:2 FTS)	757124-72-4	1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt (4:2 FTS-Na)	27619-93-8

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SAMPLE/ATTACHMENT PICTURE



***** End of Report *****

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