

Test Report

No.: SL01250500138801FW

Date: May 24, 2025

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ENGINEERED CUSTOM COATINGS

603 HI MOUNT ROAD WEST BEND WI 53090

The following sample was submitted and on behalf of the client as:

Sample No.	Sample Description
A	41-0310 Chemical for RSL & PFAS/TF test

Color Submitted : /

Country of Origin : Vietnam

Country of Destination : Vietnam

Sample Receiving Date : May 12, 2025. Confirmation date: May 20, 2025

Test Performing Period : May 20, 2025 - May 24, 2025

Performed Test Summary : Selected test(s) as requested by applicant against Client's specified requirement.

Test Results : * * * *
Please refer to the next page(s).

Conclusion : PASS

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Chemical Tests:

Overall Result

	<u>(A)</u>
Free Formaldehyde	M
Total Cadmium	M
Total Lead On Substrate	M
Organotin Compounds	M
Phthalates	M
Organic Solvents	M
Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO)	M
N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP)	M
Total Fluorine Screening	M
Total Organic Fluorine	M
Perfluorinated and Polyfluorinated Chemicals (PFAS)	M
SVHC	N/A
Toy Safety Test	N/A
DMFa	N/A

Remarks: M = Meets Client's requirement
 F = Below Client's requirement
 N/A = Not Applicable

Note: Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

Signed for and on behalf of
SGS Vietnam LTD



Thai Thuy Ngan
 Softlines SBU Manager

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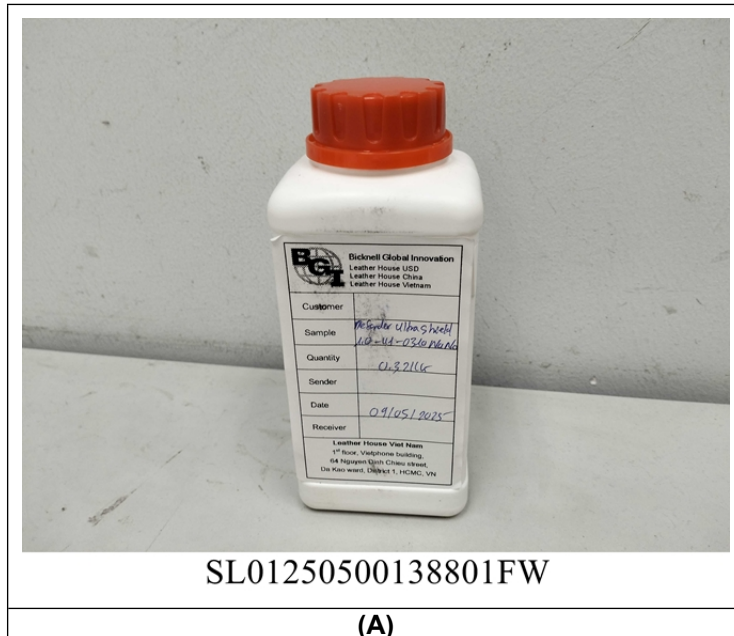
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Component List / List of Material

Sample No.	Component	Material	Color	Fiber Type	Remark
A1	Transparent liquid	Liquid	Transparent	-	-

PHOTO OF SUBMITTED SAMPLE



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Test Results:

Free Formaldehyde

Test Method: In-house method of steam distillation, Analysis was performed by UV/VIS spectrophotometer.

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Formaldehyde	mg/kg	5	ND	16
Conclusion			PASS	

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Formaldehyde	mg/kg	5	ND	75
Conclusion			PASS	

Remark: ND = Not Detected
RL = Reporting Limit

Total Cadmium

Test Method: With reference to EN 16711-1:2015. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Cadmium (Cd)	mg/kg	5	ND	40
Conclusion			PASS	

Remark: ND = Not Detected
RL = Reporting Limit

Total Lead in Substrate

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Lead (Pb)	mg/kg	20	ND	60
Conclusion			PASS	

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Note: The result is calculated using the minimum sample weight.

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Organotins
Test Method: With reference to ISO/TS 16179:2012, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Tributyl tin (TBT)	mg/kg	0.05	ND	0.5
Triphenyltin (TPhT)	mg/kg	0.05	ND	0.5
Dibutyl tin (DBT)	mg/kg	0.05	ND	1
Diethyl tin (DET)	mg/kg	0.05	ND	1
Monobutyl tin (MBT)	mg/kg	0.05	ND	1
Tripropyltin(TPT)	mg/kg	0.05	ND	1
Monooctyl tin (MOT)	mg/kg	0.05	ND	1
Trimethyltin (TMT)	mg/kg	0.05	ND	1
Tetrabutyl tin (TeBT)	mg/kg	0.05	ND	1
Tricyclohexyl tin (TCyHT)	mg/kg	0.05	ND	1
Trioctyltin(TOT)	mg/kg	0.05	ND	1
Tetraethyl tin (TeET)	mg/kg	0.05	ND	1
Monomethyltin (MMT)	mg/kg	0.05	ND	1
Dimethyltin (DMT)	mg/kg	0.05	ND	1
Dipropyltin (DPT)	mg/kg	0.05	ND	1
Monophenyltin (MPhT)	mg/kg	0.05	ND	1
Diphenyltin (DPhT)	mg/kg	0.05	ND	1
Tetraoctyltin (TTOT)	mg/kg	0.05	ND	1

Conclusion
PASS
Remark: ND = Not Detected
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Phthalates
Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS No.</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Di-butyl Phthalate (DBP)	84-74-2	mg/kg	50	ND	500
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	mg/kg	50	ND	500
Benzyl Butyl Phthalate (BBP)	85-68-7	mg/kg	50	ND	500
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND	500
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	50	ND	500
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND	500
Dimethyl Phthalate (DMP)	131-11-3	mg/kg	50	ND	500
Diethyl Phthalate (DEP)	84-66-2	mg/kg	50	ND	500
Dipropyl Phthalate (DPrP)	131-16-8	mg/kg	50	ND	500
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	50	ND	500
Di-n-pentyl Phthalate (DnPP)	131-18-0	mg/kg	50	ND	500
Di-n-hexyl Phthalate (DnHP)	84-75-3	mg/kg	50	ND	500
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	ND	500
Diiso-octyl Phthalate (DIOP)	27554-26-3	mg/kg	50	ND	500
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	mg/kg	50	ND	500
Diisopentylphthalate (DiPP)	605-50-5	mg/kg	50	ND	500
N-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	mg/kg	50	ND	500
Diisoheptyl phthalate (DIHP)	71888-89-6	mg/kg	50	ND	500
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters(DHNUP)	68515-42-4	mg/kg	50	ND	500
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	mg/kg	50	ND	500
Dihexylphthalate, branched and linear (DHxP)	68515-50-4	mg/kg	50	ND	500
Di-iso-hexylphthalate (DIHxP)	71850-09-4	mg/kg	50	ND	500
1,2-benzenedicarboxylic acid, di-C6-10- alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 /68648-93-1	mg/kg	50	ND	500
Bis(2-ethylhexyl)-2,3,4,5- tetrabromophthalate(TBPH)	26040-51-7	mg/kg	50	ND	500
Sum of Phthalates	-	mg/kg	-	ND	1000

Conclusion
PASS
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Organic Solvents

Test Method: With reference to SGS In-house method. Analysis was performed with GC-MS.

<u>Test Item(s)</u>	<u>CAS No.</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	5.0	ND	1000
1,1,1-Trichloroethane	71-55-6	mg/kg	5.0	ND	1000
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	5.0	ND	1000
1,1,2-Trichloroethane	79-00-5	mg/kg	5.0	ND	1000
1,1-Dichloroethylene	75-35-4	mg/kg	5.0	ND	1000
1,2-Dichloroethane	107-06-2	mg/kg	5.0	ND	1000
Benzene	71-43-2	mg/kg	1.0	ND	5.0
Tetrachloromethane (Carbon Tetrachloride)	56-23-5	mg/kg	5.0	ND	1000
Trichloromethane (Chloroform)	67-66-3	mg/kg	5.0	ND	1000
Cyclohexanone	108-94-1	mg/kg	5.0	ND	1000
Dichloromethane (Methylene Chloride)	75-09-2	mg/kg	5.0	ND	1000
Ethylbenzene	100-41-4	mg/kg	5.0	ND	1000
Pentachloroethane	76-01-7	mg/kg	5.0	ND	1000
Phenol	108-95-2	mg/kg	3.0	ND	10
Tetrachloroethylene	127-18-4	mg/kg	5.0	ND	1000
Toluene	108-88-3	mg/kg	5.0	16.5	1000
Trichloroethylene	79-01-6	mg/kg	5.0	ND	1000
Xylenes	1330-20-7	mg/kg	5.0	ND	1000
Carbon Disulfide	75-15-0	mg/kg	5.0	ND	1000
Methylphenol	-	mg/kg	5.0	ND	1000
Sum of VOCs	-	mg/kg	-	16.5	1000

Conclusion

PASS

Remark: ND = Not Detected
RL = Reporting Limit

Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO)

Test Method: APs: With reference to AFIRM RSL 2024 method by solvent extraction, analysis was performed by LC-MS.

APEOs: With reference to EN ISO 18254-1:2016, analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Nonylphenol Ethoxylates (NPEOs)	mg/kg	20	ND	-
Octylphenol Ethoxylates (OPEOs)	mg/kg	20	ND	-
Nonylphenol (NP)	mg/kg	3	ND	-
Octylphenol (OP)	mg/kg	3	ND	-
Sum of (NP, OP)	mg/kg	-	ND	10
Sum of (NP, OP, NPEOs, OPEOs)	mg/kg	-	ND	100

Conclusion

PASS

Remark: ND = Not Detected
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N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP)

Test Method: With reference to ISO 16189:2021, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS No.</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
N,N-Dimethylacetamide (DMAC)	127-19-5	mg/kg	50	ND	1000
1-Methyl-2-pyrrolidone (NMP)	872-50-4	mg/kg	50	ND	1000
Conclusion				PASS	

Remark: ND = Not Detected
RL = Reporting Limit

Total Fluorine Screening

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Fluorine(F)	mg/kg	15	ND	50
Conclusion			PASS	

Remark: ND = Not Detected
RL = Reporting Limit

Total Organic Fluorine

Test Method: With reference to EN 14582:2016. Analysis was conducted by Ion Chromatography.

<u>Test Item(s)</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
Total Organic Fluorine content (TOF)#	mg/kg	20	ND	Usage ban/ Not Applicable
Conclusion			PASS	

Remark: ND = Not Detected
RL = Reporting Limit
#=TOF result is based on not detected of Total Fluorine
In case positive results(s) is/are obtained, it cannot be ruled out that fluorine content comes from organic and/or inorganic sources. Further test of individual PFAS is recommended to verify the actual PFAS substances concentration in the tested sample(s)

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Perfluorinated and Polyfluorinated Chemicals (PFAS)
Test Method: With reference to EN ISO 23702-1:2023. Analysis was conducted by HPLC-MS and GC-MS.

<u>Test Item(s)</u>	<u>CAS No.</u>	<u>Unit(s)</u>	<u>RL</u>	<u>A1</u>	<u>Req.</u>
PFOS, its salts					
Perfluorooctane sulfonic acid (PFOS), its salts [^]	1763-23-1	mg/kg	0.010	ND	0.025
PFOS- related compounds					
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.01	ND	-
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.01	ND	-
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.01	ND	-
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.01	ND	-
Perfluorooctane Sulfonamide (PFOSA), its salts [^]	754-91-6	mg/kg	0.01	ND	-
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.01	ND	-
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.01	ND	-
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.01	ND	-
Sum of PFOS-related compounds	-	mg/kg	-	ND	1
PFOA, its salts					
Perfluorooctanoic acid (PFOA), its salts [^]	335-67-1	mg/kg	0.010	ND	0.025
PFOA-related compounds					
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) [@] , its salts [^]	39108-34-4	mg/kg	0.10	ND	-
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.20	ND	-
Ethyl perfluorooctanoate (Et-PFOA) [*]	3108-24-5	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) [@]	27905-45-9	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) [@]	1996-88-9	mg/kg	0.20	ND	-
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.20	ND	-
2H,2H-Perfluorodecane Acid (8:2 FTCA) [@] , its salts [^]	27854-31-5	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) [@]	678-39-7	mg/kg	0.10	ND	-
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) [@]	2043-53-0	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃) [@]	101947-16-4	mg/kg	0.20	ND	-
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP) [@] , its salts [^]	678-41-1	mg/kg	0.10	ND	-
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA) [@] , its salts [^]	34598-33-9	mg/kg	0.10	ND	-

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1H,1H,2H-Heptadecafluoro-1-decene (PFDE)@	21652-58-4	mg/kg	0.20	ND	-
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl ₃)/	78560-44-8	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH ₃) ₃) ^{^^} ,@	/83048-65-1	mg/kg	0.20	ND	-
2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	mg/kg	0.10	ND	-
6:8 Perfluorophosphinic acid (6:8 PFPi)#	610800-34-5	mg/kg	0.10	ND	-
8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1	mg/kg	0.10	ND	-
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)@	37858-04-1	mg/kg	0.20	ND	-
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)@	57678-03-2	mg/kg	0.10	ND	-
Sum of PFOA-related compounds	-	mg/kg	-	ND	1
C9-C14 PFCA, its salts					
Perfluorononane Acid (PFNA), its salts [^]	375-95-1	mg/kg	0.010	ND	-
Perfluorodecane Acid (PFDA), its salts [^]	335-76-2	mg/kg	0.010	ND	-
Perfluoroundecanoic Acid (PFUnDA), its salts [^]	2058-94-8	mg/kg	0.010	ND	-
Perfluorododecanoic Acid (PFDoDA), its salts [^]	307-55-1	mg/kg	0.010	ND	-
Perfluorotridecanoic Acid (PFTrDA), its salts [^]	72629-94-8	mg/kg	0.010	ND	-
Perfluorotetradecanoic Acid (PFTDA), its salts [^]	376-06-7	mg/kg	0.010	ND	-
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND	-
Sum of C9-C14 PFCA, their salts	-	mg/kg	-	ND	0.025
C9-C14 PFCA-related substances					
Perfluorodecane sulfonic acid (PFDS), its salts [^]	335-77-3	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.20	ND	-
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) , its salts [^]	120226-60-0	mg/kg	0.10	ND	-
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.20	ND	-
Perfluorononane sulfonic acid (PFNS), its salts [^]	68259-12-1	mg/kg	0.10	ND	-
Perfluoroundecane sulfonic acid	749786-16-1	mg/kg	0.10	ND	-

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Test Item(s)	CAS No.	Unit(s)	RL	A1	Req.
(PFUnDS), its salts [^]					
Perfluorododecane sulfonic acid (PFDoDS), its salts [^]	79780-39-5	mg/kg	0.10	ND	-
Perfluorotridecane sulfonic acid (PFTrDS), its salts [^]	791563-89-8	mg/kg	0.10	ND	-
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	mg/kg	0.10	ND	-
Perfluorodecyl iodide (PFDI)	423-62-1	mg/kg	0.20	ND	-
Perfluorododecyl iodide (PFDoDI)	307-60-8	mg/kg	0.20	ND	-
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	mg/kg	0.10	ND	-
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	mg/kg	0.10	ND	-
1H,1H,2H,2H-perfluorodecyl acetate (10:2 FTOAc)	37858-05-2	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) [@] , its salts [^]	39108-34-4	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) [@]	27905-45-9	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) [@]	1996-88-9	mg/kg	0.20	ND	-
2H,2H-Perfluorodecane Acid (8:2 FTCA) [@] , its salts [^]	27854-31-5	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) [@]	678-39-7	mg/kg	0.10	ND	-
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) [@]	2043-53-0	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃) [@]	101947-16-4	mg/kg	0.20	ND	-
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP) [@] , its salts [^]	678-41-1	mg/kg	0.10	ND	-
2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA) [@] , its salts [^]	34598-33-9	mg/kg	0.10	ND	-
1H,1H,2H-Heptadecafluoro-1-decene (PFDE) [@]	21652-58-4	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl ₃)/	78560-44-8	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH ₃) ₃) ^{^^,@}	/83048-65-1	mg/kg	0.20	ND	-
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) [@]	37858-04-1	mg/kg	0.20	ND	-
8:2 Fluortelomer phosphate monoester (8:2 monoPAP) [@]	57678-03-2	mg/kg	0.10	ND	-
Sum of C9-C14 PFCA-related substances	-	mg/kg	-	ND	0.26
PFHxS, its salts					
Perfluorohexanesulfonic acid (PFHxS), its salts [^]	355-46-4	mg/kg	0.010	ND	0.025

PFHxS-related compounds

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N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	mg/kg	0.10	ND	-
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.10	ND	-
N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	mg/kg	0.10	ND	-
2-[methyl[(tridecafluorohexylsulphonyl)amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	mg/kg	0.20	ND	-
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	mg/kg	0.20	ND	-
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	mg/kg	0.20	ND	-
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	mg/kg	0.10	ND	-
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA), its salts^	68957-32-4	mg/kg	0.10	ND	-
Sum of PFHxS-related compounds	-	mg/kg	-	ND	1
PFHxA, its salts					
Perfluorohexane Acid (PFHxA), its salts^	307-24-4	mg/kg	0.010	ND	0.025
PFHxA-related compounds					
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.10	ND	-
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS), its salts^	27619-97-2	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃)	51851-37-7	mg/kg	0.50	ND	-
1H,1H,2H,2H-Perfluorooctyltrichlorosilane (6:2 FTSiCl ₃)	78560-45-9	mg/kg	0.20	ND	-
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	mg/kg	0.20	ND	-
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	mg/kg	0.20	ND	-
n-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide n-oxide	80475-32-7	mg/kg	0.10	ND	-
thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-	26650-09-9	mg/kg	0.20	ND	-

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tridecafluorooctyl ester					
6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	mg/kg	0.10	ND	-
2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	mg/kg	0.10	ND	-
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	mg/kg	0.20	ND	-
1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl)	102488-47-1	mg/kg	0.20	ND	-
1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	mg/kg	0.20	ND	-
4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	mg/kg	0.20	ND	-
Perfluorohexyl ethylphosphonic acid (6:2 FTPA), its salts [^]	252237-40-4	mg/kg	0.10	ND	-
1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- (5:1 FTOH)	423-46-1	mg/kg	0.20	ND	-
2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	mg/kg	0.20	ND	-
4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	mg/kg	0.20	ND	-
3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	mg/kg	0.20	ND	-
1-(perfluorohexyl)octane (F ₆ H ₈)	133331-77-8	mg/kg	0.20	ND	-
1H,1H-Tridecafluoroheptylamine (6:1 FTNH ₂)	423-49-4	mg/kg	0.20	ND	-
2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	mg/kg	0.20	ND	-
6:6 Perfluorophosphinic acid (6:6 PFPi)	40143-77-9	mg/kg	0.10	ND	-
6:8 Perfluorophosphinic acid (6:8 PFPi)§	610800-34-5	mg/kg	0.10	ND	-
Sum of PFHxA-related compounds	-	mg/kg	-	ND	1
Conclusion				PASS	

Remark: ND = Not Detected
RL = Reporting Limit

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- Notes:**
- @ PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances
 - # PFAS classified as both PFOA-related compounds and PFHxA-related substances
 - * As the extraction is performed with Methanol, EtPFOA will convert to MePFOA. Thus, the sum of both must be calculated and considered.
 - ^^ 8:2 FTSiCl₃ can not be analytically distinguished from 8:2 FTSi(OCH₃)₃ with current method. Thus, the sum of both must be calculated and considered.
 - ^ Substances refer to its salts/derivative listed in Appendix 1

Appendix 1 - List of PFAS its salts & derivatives

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

Substances	CAS No.	Substances	CAS No.
PFOA, its salts & derivatives			
Perfluorooctanoic Acid (PFOA)	335-67-1	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium (PFOA-Cr ³⁺)	68141-02-6
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	Pentadecafluorooctanoic acid-piperazine (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	Pentadecafluorooctanoate (anion)	45285-51-6
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	Perfluorooctanoic Anhydride	33496-48-9
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Ammonium perfluorooctanoate (APFO)	3825-26-1	Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	Tetrapropylammonium perfluorooctanoate	277749-00-5
8:2 FTCA, its salts			
2H,2H Perfluorodecane Acid (8:2 FTCA)	27854-31-5	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
PFOS, its salts & derivatives			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
Potassium perfluorooctane sulfonate (PFOS-K)	2795-39-3	Perfluorooctanesulfonate	45298-90-6
Sodium perfluorooctane sulfonate (PFOS-Na)	4021-47-0	Triethylammonium perfluorooctane sulfonate	54439-46-2
Lithium perfluorooctane sulfonate (PFOS-Li)	29457-72-5	Tetramethylammonium perfluorooctane sulfonate	56773-44-5

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Ammonium perfluorooctane sulfonate (PFOS-NH ₄)	29081-56-9	N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate	56773-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8	N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate	124472-68-0
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) / PFOS-TEA	56773-42-3	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8	Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
Magnesium bis(heptadecafluoro octanesulphonate) (PFOS-Mg)	91036-71-4	1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7	N,N,N-Triethyldecane-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	Tetrabutylphosphonium perfluorooctane sulfonate	2185049-59-4
PFNA, its salts			
Perfluorononane Acid (PFNA)	375-95-1	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))	77032-27-0
Sodium heptadecafluorononanoate (PFNA-Na)	21049-39-8	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))	77032-24-7
Perfluorononanoate ammonium salt (PFNA-NH ₄)	4149-60-4	Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-N(C ₆ H ₁₅))	327176-80-7
Potassium perfluorononanoate (PFNA-K)	21049-38-7	Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI)	95682-66-9

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		(PFNA-N(C5H11))	
Lithium perfluorononanoate (PFNA-Li)	60871-92-3	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluoro-, compd. with benzenamine (1:1) (PFNA-N(C6H7))	95682-67-0
Silver perfluorononanoate (PFNA-Ag)	7358-16-9	Nonanoic acid, heptafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-N(C6H13))	328531-06-2
Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6	Perfluorononanoate (anion)	72007-68-2
PFDA, its salts			
Perfluorodecane Acid (PFDA)	335-76-2	Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Sodium nonadecafluorodecanoate (PFDA-Na)	3830-45-3	Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7	Perfluorodecanoate (anion)	73829-36-4
Potassium perfluorodecanoate (PFDA-K)	51604-85-4		
PFUnDA, its salts			
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Sodium perfluoroundecanoate (PFUnDA-Na)	60871-96-7	Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5	Perfluoroundecanoate (anion)	196859-54-8
PFDoDA, its salts			
Perfluorododecanoic Acid (PFDoDA)	307-55-1	Sodium perfluorododecanoate (PFDoDA-Na)	60872-01-7
Ammonium tricosafuorododecanoate (PFDoDA-NH ₄)	3793-74-6	Perfluorododecanoate (anion)	171978-95-3
PFDS, its salts			
Perfluorodecane sulfonic Acid (PFDS)	335-77-3	Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7
Sodium perfluorodecanesulfonate	2806-15-7	Perfluorodecane sulfonate (anion)	126105-34-8

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(PFDS-Na)			
Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8		
8:3 FTCA, its salts			
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA)	34598-33-9	2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
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-NH ₄)	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
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-	1310480-24-0	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, perfluorohexanesulfonate (1:1)	421555-74-0

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1-sulfonate			
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)sulfanium 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
Triphenylsulfanium tridecafluorohexane-1-sulfonate (TPS-PFHxS)	144116-10-9	(4-Methylphenyl)diphenylsulfanium tridecafluorohexane-1-sulfonate	910606-39-2
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]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)	928049-42-7
Tetramethylammonium perfluorohexane sulfonate (PFHxS-TMA)	189274-31-5	Perfluorohexylsulfonyl fluoride (PFHxS-F)	423-50-7
Tert-	202189-	Perfluorohexylsulfonyl	55591-

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butylazanium;1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	84-2	chloride (PFHxS-Cl)	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	Perfluorohexane sulfonate (anion)	108427-53-8
Tetrabutylphosphonium perfluorohexane sulfonate	2310194-12-6		
PFHxA, its salts & derivatives			
Perfluorohexane Acid (PFHxA)	307-24-4	Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
Ammonium perfluorohexanoate (APFHx)	21615-47-4	Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2
Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	Perfluorohexanoic anhydride	308-13-4
Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	Perfluorohexanoate (anion)	92612-52-7
PFNS, its salts			
Perfluorononane sulfonic acid (PFNS)	68259-12-1	Ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4
Sodium perfluorononanesulfonate (PFNS-Na)	98789-57-2	Perfluorononane sulfonate (anion)	474511-07-4
Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5		
PFUnDS, its salts			
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	Perfluoroundecanesulfonate (anion)	441296-91-9
PFDoDS, its salts			

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Perfluorododecane sulfonic acid (PFDoDS)	79780-39-5	Sodium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3
Sodium perfluorododecanesulfonate (PFDoDS-Na)	1260224-54-1	Perfluorododecane sulfonate (anion)	343629-43-6
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-heptafluorodecyl)hydrogen phosphate (8:2 diPAP)	678-41-1	Bis[2-(perfluorooctyl)ethyl]phosphate ammonium salt	93776-20-6
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2 diPAP-Na)	114519-85-6	8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1
Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl)hydrogen phosphate	57677-97-1		
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 Potassium salt (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	Perfluorooctanesulfonamide Ammonium salt (PFOSA-NH4)	76752-72-2
Perfluorooctanesulfonamide Sodium salt (PFOSA-Na)	76752-78-8		
PFTrDA, its salts			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	Perfluorotridecanoate (anion)	862374-87-6
Ammonium perfluorotridecanoate (PFTrDA-NH4)	4288-72-6		
PFTDA, its salts			

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Perfluorotetradecanoic Acid (PFTDA)	376-06-7	Perfluorotetradecanoate (anion)	365971-87-5
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-tridecafluoro-, barium salt (2:1) (6:2 FTS-Ba)	1807944-82-6
6:2 Fluorotelomer sulfonate potassium salt (6:2 FTS-K)	59587-38-1		
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	Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4
Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6		
10:2 FTS, its salts			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	1H,1H,2H,2H-Perfluorododecane sulfonic acid sodium salt (10:2 FTS-Na)	108026-35-3

SVHC

Not Applicable

Toy Safety Test

Not Applicable

DMFa

Not Applicable

Remark: The test results are considered as conform to specification based on the general consideration simple acceptance as stated in ISO/IEC GUIDE 98-4:2012.

Report results refer to submitted sample(s) only

*** End of Report ***

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