



Test Report

No.: ETR25B02766

Date: 27-Nov-2025

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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

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

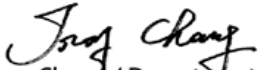
Sample Submitted By : ESCORT SEAL CO., LTD.
 Sample Name : N3J01B+N3J11B+N4J01B+N4J11B+N5J01B+N5J11B+N6J01B+N6J11B+N6J13B+N6J17B+N6J23B+N6J42B+N6J46B+N6J51B+N6J55B+N6J60B+N6J63B+N7J01B+N7J11B+N8J01B+N8J11B+N9J01B+N9J11B
 Material No. : N4001B+N4011B+N5001B+N5011B+N6001B+N6011B+N7001B+N7011B+N7013B+N7017B+N7023B+N7042B+N7046B+N7051B+N7055B+N7060B+N7063B+N8001B+N8011B+N9001B+N9011B+N9J01B+N9J11B

 Sample Receiving Date : 17-Nov-2025
 Testing Period : 17-Nov-2025 to 24-Nov-2025

Test Results : Please refer to following pages.

Test Requested	Summary
As requested by the client, the risk of specific PFAS in the selected sample is evaluated. The total amounts of evaluated PFAS are 678 items, concluding 157 tested items and 521 listed items (see Appendix 1).	Please refer to following pages.

Troy Chang
 Troy Chang / Department Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei




PIN CODE: FA4EDD8C

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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Test Part Description

No.1 : MIXED ALL PARTS

Test Method

Modified EN 17681-1: 2025, analysis was performed by GC/MS and LC/MS/MS.

Test Result(s)

Unit: mg/kg

Substance Name	MDL	Result
		No.1
Other PFAS		
Bisphenol AF (HFBPA) (CAS No.: 1478-61-1)	0.01	0.107
Other tested PFAS in Appendix 1	-	n.d.

Note :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

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【Appendix 1】

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

Group Name	Substance Name	CAS No.	MDL (mg/kg)
TFA, its salts	Trifluoroacetic acid (TFA)	76-05-1	1
	Sodium trifluoroacetate (TFA-Na)	2923-18-4	-
	Thallium(III) trifluoroacetate (TFA-Tl)	23586-53-0	-
	Lithium Trifluoroacetate (TFA-Li)	2923-17-3	-
	Silver trifluoroacetate (TFA-Ag)	2966-50-9	-
	Cesium Trifluoroacetate (TFA-Cs)	21907-50-6	-
	Potassium trifluoroacetate (TFA-K)	2923-16-2	-
	Ammoniumtrifluoroacetate (TFA-NH4)	3336-58-1	-
	Mercury(II) trifluoroacetate (TFA-Hg)	13257-51-7	-
	Palladium(II) trifluoroacetate (TFA-Pd)	42196-31-6	-
	Trifluoroacetate / Trifluoroacetic acid anion (TFA anion)	14477-72-6	-
	Dimethyl[(trifluoroacetyl)oxy]sulfanium trifluoroacetate	57738-66-6	-
	Aluminium tris(trifluoroacetate) (TFA-Al)	36554-89-9	-
	Barium bis(trifluoroacetate) (TFA-Ba)	60884-92-6	-
	Erbium tris(trifluoroacetate) (TFA-Er)	70236-99-6	-
	Indium trifluoroacetate (TFA-In)	36554-90-2	-
	Lanthanum tris(trifluoroacetate) (TFA-La)	70236-92-9	-
	Nickel(2+) trifluoroacetate (TFA-Ni)	16083-14-0	-
	Lead(II) trifluoroacetate (TFA-Pb)	4146-73-0	-
	Acetic acid, trifluoro-, rhodium(2+) salt (TFA-Rh)	72654-51-4	-
	Thulium tris(trifluoroacetate) (TFA-Tm)	70237-00-2	-
	Ytterbium(3+) tris(trifluoroacetate) (TFA-Yb)	87863-62-5	-
	Zinc bis(trifluoroacetate) (TFA-Zn)	21907-47-1	-
	Ruthenium(II) 2,2,2-trifluoroacetate (TFA-Ru)	61612-84-8	-
Magnesium 2,2,2-trifluoroacetate (TFA-Mg)	123333-72-2	-	
Copper(2+) trifluoroacetate (TFA-Cu)	123333-88-0	-	

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
TFA, its salts	Methyltrioctylammonium trifluoroacetate	121107-16-2	-
	Chromium(3+) tris(trifluoroacetate) (TFA-Cr)	16712-29-1	-
	Tetraethylammonium trifluoroacetate (TFA-N(C ₂ H ₅) ₄)	30093-29-9	-
	Tetrabutylammonium trifluoroacetate (TFA-N(C ₄ H ₉) ₄)	39481-22-6	-
	Europium(3+) trifluoroacetate-water (1/3/3) (TFA-Eu.H ₂ O)	94079-71-7	-
PFBA, its salts	Perfluorobutane acid (PFBA)	375-22-4	0.01
	Ammonium perfluorobutanoate (PFBA-NH ₄)	10495-86-0	-
	Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	-
	Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	-
	Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	-
	Lithium perfluorobutanoate (PFBA-Li)	4146-76-3	-
	Heptafluorobutanoic acid-piperazine (1:1)	375-04-2	-
	Perfluorobutanoate (anion)	45048-62-2	-
	4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1) (PFBA-C ₆ H ₄ ClF ₆ N ₂ P)	-	-
	Heptafluorobutanoic acid-1-phenylpiperazine (1:1) (PFBA-C ₁₀ H ₁₄ N ₂)	2263-11-8	-
	Perfluorobutanoic anhydride (PFBAA)	336-59-4	-
	Heptafluorobutanoic acid calcium salt (PFBA-Ca)	2366-98-5	-
	Rhodium(II) perfluorobutyrate dimer (PFBA-Rh)	73755-28-9	-
	Perfluorobutyryl chloride (PFBA-Cl)	375-16-6	-
	Perfluorobutanoyl fluoride (PFBA-F)	335-42-2	-
	Heptafluorobutanoyl Bromide (PFBA-Br)	375-13-3	-
	4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1)	-	-
	N5-(5-Hydroxy-4,6-dimethylpyrimidin-2-yl)-L-ornithine-heptafluorobutanoic acid (1/2)	936233-19-1	-
-	3-(Perfluorobutyl)propanoic acid	80705-13-1	0.01
PFBS, its salts & derivatives	Perfluorobutane sulfonate (PFBS)	375-73-5	0.01
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, sodium salt (1:1) (PFBS-Na)	60453-92-1	-
	Lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	-
	Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	-
	Perfluorobutane Sulfonate K-salt (PFBS-K)	29420-49-3	-
	Perfluorobutane sulfonyl fluoride (PFBS-F)	375-72-4	-

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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFBS, its salts & derivatives	Tetraethylammonium perfluorobutanesulfonate (PFBS-N(CH ₃ CH ₂) ₄)	25628-08-4	-
	Triphenylsulfanium perfluorobutane sulfonate (TPS-PFBS)	144317-44-2	-
	Dimethyl(phenyl)sulfanium perfluorobutane sulfonate	220133-51-7	-
	Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate	220689-12-3	-
	Morpholinium perfluorobutanesulfonate	503155-89-3	-
	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH ₄)	68259-10-9	-
	Nonafluorobutanesulfonic acidHydrate	59933-66-3	-
	Nonafluoro-1-butanefonyl chloride (PFBS-Cl)	2991-84-6	-
	Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanefonyl chloride (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	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)	70225-18-2	-
	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O)	209482-18-8	-
	Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄))	108427-52-7	-
	Diphenyliodonium nonafluorobutane-1-sulfonate((PFBS-I(C ₆ H ₅) ₂))	194999-82-1	-
	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefonyl chloride (1:1)	241806-75-7	-
	Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefonyl chloride (1:1)	425670-64-0	-
	Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefonyl chloride (1:1)	867373-18-0	-
	Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefonyl chloride (1:1)	1015420-87-7	-
	1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefonyl chloride (1:1)	905972-83-0	-
1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefonyl chloride (1:1)	1001557-05-6	-	
2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefonyl chloride (1:1)	374571-81-0	-	

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFBS, its salts & derivatives	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	-
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	124472-66-8	-
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	-
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	56773-55-8	-
	Perfluorobutanefulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5	-
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	-
	Perfluorobutane sulfonate (anion)	45187-15-3	-
	1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium - 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate	EC No. 468-770-4	-
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, compd. with N,N-diethylethanamine (1:1)	182059-38-7	-
	1-Octanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	334529-55-4	-
	Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	334529-62-3	-
	Pyridinium, 1-butyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	334529-64-5	-
	1-Octanaminium, N-methyl-N,N-dioctyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	495417-51-1	-
	Sulfonium, tris(4-methylphenyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	722538-68-3	-
	N-Ethyl-N-methyl-N-propylammonium perfluorobutanefulfonate	1186599-90-5	-
	[4-(2-Methylpropyl)phenyl]-diphenylsulfanium; 1,1,2,2,3,3,4,4-nonafluorobutane-1-sulfonate	1375211-36-1	-
	Diphenyl 4-tertbutylphenylsulfonium nonafluorobutanefulfonate	258872-05-8	-
Diphenyl(4-methylphenyl)sulfonium nonafluorobutanefulfonate	284474-28-8	-	
Trimethylsilyl nonafluorobutanefulfonate	68734-62-3	-	

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
-	Perfluorobutane sulfon amides	30334-69-1	0.1
-	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC3H8O)	34454-97-2	0.01
-	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.1
PFPA, its salts	Perfluoropentane acid (PFPA)	2706-90-3	0.01
	Sodium perfluoropentanoate (PFPA-Na)	2706-89-0	-
	Potassium perfluoropentanoate (PFPA-K)	336-23-2	-
	Ammonium perfluoropentanoate (PFPA-NH ₄)	68259-11-0	-
	Lithium perfluoropentanoate (PFPA-Li)	198482-22-3	-
	Silver perfluoropentanoate (PFPA-Ag)	2795-30-4	-
	Perfluoropentanoate (anion)	45167-47-3	-
	Pentanoic acid, 2,2,3,3,4,4,5,5,5-nonafluoro-, compd. with phenylmethyl carbamidodithioate (1:1) (PFPeA-C ₈ H ₁₀ N ₂ S)	64808-55-5	-
	Nonafluoropentanoic anhydrid (PFPeAA)	308-28-1	-
	Perfluoropentanoyl chloride (PFPeA-Cl)	375-60-0	-
	Perfluoropentanoyl fluoride (PFPeA-F)	375-62-2	-
PFHxA, its salts & derivatives	Perfluorohexane acid (PFHxA)	307-24-4	0.01
	Ammonium perfluorohexanoate (PFHxA-NH ₄)	21615-47-4	-
	Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	-
	Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	-
	Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	-
	Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	-
	Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	-
	Perfluorohexanoic anhydride	308-13-4	-
	Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2	-
	Perfluorohexanoate (anion)	92612-52-7	-
	Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	-
	Perfluorohexanoyl bromide (PFHxA-Br)	1404193-66-3	-
	Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-, compd. with 1-hexanamine (1:1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4	-
	Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-, compd. with 1-phenylpiperazine (1:1) (PFHxA-C ₁₀ H ₁₄ N ₂)	985-60-4	-
-	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.1
-	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.1
-	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	0.1

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.01
	Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	-
	Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	-
	Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄)	59587-39-2	-
	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	-
	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-sulfonate (6:2 FTS(anion))	425670-75-3	-
	2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	-
	2-(Perfluorohexyl)ethanesulfonyl fluoride (6:2 FTS-F)	-	-
-	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.1
-	Perfluorohexyl iodide (PFHxI)	355-43-1	0.2
-	n-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide	852527-50-5	0.01
-	Perfluorooctyl triethoxysilane (POTS)	51851-37-7	0.1
-	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.1
-	1H,1H,2H,2H-Perfluorooctyltrimethoxysilane	85857-16-5	
6:2 monoPAP, its salts	Mono[2-(perfluorohexyl)ethyl] Phosphate (6:2 monoPAP)	57678-01-0	0.1
	Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH ₄ NH ₄)	1000852-37-8	-
-	2-Iodo-1H,1H,1H,2H,3H,3H-perfluorononane	38550-34-4	0.2
-	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide	80475-32-7	0.1
-	Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.2
-	2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.1
-	1H,1H,2H,2H-Perfluorooctanethiol (6:2 FTSH)	34451-26-8	0.2
-	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl)	102488-47-1	0.2
-	1-Iodo-1H,1H-Perfluoroheptane (6:1 FTI)	212563-43-4	0.2
-	3-(Perfluorohexyl)propyl iodide (6:3 FTI)	89889-20-3	0.2

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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Group Name	Substance Name	CAS No.	MDL (mg/kg)
6:2 FTPA, its salts	1H,1H,2H,2H-Perfluorooctanephosphonic acid (6:2 FTPA)	252237-40-4	0.1
	Sodium hydrogen ((perfluorohexyl)ethyl)phosphonate (Cheminox FHP 2OH-Na(PFHEPA-Na))	1189052-95-6	-
-	1H,1H-perfluorohexan-1-ol (5:1 FTOH)	423-46-1	0.2
-	1H,1H-perfluoro-1-heptanol (6:1 FTOH)	375-82-6	0.2
-	3-(perfluorohexyl)propanol (6:3 FTOH)	80806-68-4	0.2
-	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol	914637-05-1	0.2
-	1-(perfluorohexyl)octane	133331-77-8	0.2
-	1H,1H-Perfluoroheptylamine (6:1 FTNH ₂)	423-49-4	0.2
PFHxS, its salts & derivatives	Perfluorohexane sulfonate (PFHxS)	355-46-4	0.01
	Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	-
	Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	-
	Ammonium perfluorohexanesulfonate (PFHxS-NH ₄)	68259-08-5	-
	Perfluorohexanesulfonate Li-salt (PFHxS-Li)	55120-77-9	-
	Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)	70136-72-0	-
	Perfluorohexane sulphonyl fluoride (PFHxS-F)	423-50-7	-
	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1000597-52-3	-
	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9	-
	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (1:1)	108427-55-0	-
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)	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)	1310480-24-0	-
	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)	1310480-27-3	-
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)	1310480-28-4	-	

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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFHxS, its salts & derivatives	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)	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)	1329995-69-8	-
	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	144116-10-9	-
	Quinolinium, 1-(carboxymethyl)-4-[2-[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)	1462414-59-0	-
	Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7	-
	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)	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)	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)	213740-81-9	-
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)	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)	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)	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)	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)	41242-12-0	-
	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)	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 acid	421555-74-0	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFHxS, its salts & derivatives	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)	425670-70-8	-
	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	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)	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) (9CI)	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)	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)	911027-68-4	-
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-CsH)	92011-17-1	-
	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	-
	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	-
	Perfluorohexane sulfonate (anion)	108427-53-8	-
	Tetrabutylphosphonium tridecafluorohexane-1-sulfonate (PFHxS-P (C ₄ H ₉) ₄)	2310194-12-6	-
-	N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	68259-15-4	0.01
-	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.01

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
-	N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.01
-	2-[Methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate (N-MeFHSEA)	67584-57-0	0.2
-	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	0.1
-	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	0.1
-	1-Hexanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE)	68555-75-9	0.01
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	0.01
	Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	-
	Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	-
PFHpA, its salts	Perfluoroheptane acid (PFHpA)	375-85-9	0.01
	Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	-
	Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	-
	Ammonium perfluoroheptanoate (PFHpA-NH ₄)	6130-43-4	-
	Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	-
	Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	-
	Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	-
	Perfluoroheptanoate (anion)	120885-29-2	-
	Perfluoroheptanoic anhydride (PFHpAA)	78225-99-7	-
	Perfluoroheptanoyl chloride (PFHpA-Cl)	52447-22-0	-
	Perfluoroheptanoyl fluoride (PFHpA-F)	375-84-8	-
HPFHpA, its salts	7H-Dodecafluoroheptane acid (HPFHpA)	1546-95-8	0.01
	Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	-
	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)	376-34-1	-
	7H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
HPFHpA, its salts	Potassium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-K)	-	-
	Lithium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Li)	-	-
	7H-Perfluoroheptanoyl chloride (HPFHpA-Cl)	41405-35-0	-
	7H-Perfluoroheptanoyl fluoride (HPFHpA-F)	5927-65-1	-
	Perfluoroheptanoyl Bromide (PFHpA-Br)	159623-34-4	-
PFHpS, its salts	Perfluoroheptane sulfonate (PFHpS)	375-92-8	0.01
	Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	-
	Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	-
	Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4	-
	Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	-
	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9	-
	Perfluoroheptane sulfonate (anion)	146689-46-5	-
	Triethylammonium perfluoroheptane sulfonate	72033-40-0	-
	Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	-
	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, anhydride (9Cl) (PFHpSA)	140429-92-1	-
	Perfluoroheptanesulfonyl fluoride (PFHpS-F)	335-71-7	-
	Perfluoroheptanesulfonyl chloride (PFHpS-Cl)	33018-82-5	-
PFOS, its salts & derivatives	Perfluorooctane sulfonates (PFOS)	1763-23-1	0.01
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3	-
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	-
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9	-
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C ₂ H ₄ OH) ₂)	70225-14-8	-
	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	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-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8	-
	Tetrabutylammonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7	-
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7	-
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFOS, its salts & derivatives	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0	-
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	-
	Perfluorooctanesulfonate (anion)	45298-90-6	-
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-NH(C ₂ H ₅) ₃)	54439-46-2	-
	Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH ₃) ₄)	56773-44-5	-
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9	-
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0	-
	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8	-
	Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0	-
	Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4	-
	1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4	-
	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C ₄ H ₉) ₄)	2185049-59-4	-
	Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7	-
	Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3	-
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7	-
Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9	-	

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ESCORT SEAL CO., LTD.

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
-	N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	0.01
-	N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA)	31506-32-8	0.01
-	N-Ethyl-Perfluorooctanesulfonamidoethanol (N-Et-FOSE alcohol)	1691-99-2	0.01
-	N-Methyl-Perfluorooctanesulfonamidoethanol (N-Me-FOSE alcohol)	24448-09-7	0.01
PFOSA, its salts	Perfluorooctanesulfonamide (PFOSA)	754-91-6	0.01
	Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	-
	Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8	-
	Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0	-
	Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2	-
	heptadecafluorooctane-1-sulphonamide, compound with triethylamine(1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4	-
PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1	0.01
	Sodium perfluorooctanoate (PFOA-Na)	335-95-5	-
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8	-
	Silver perfluorooctanoate (PFOA-Ag)	335-93-3	-
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	-
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	-
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	-
	Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	-
	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	-
	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	-
	Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N)	423-52-9	-
	Pentadecafluorooctanoate (anion)	45285-51-6	-
	Perfluorooctanoic Anhydride	33496-48-9	-
	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9	-
	Tetramethylammoniumperfluorooctanoate	32609-65-7	-
1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5	-	

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFOA, its salts & derivatives	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H ₂ O) ₂)	98065-31-7	-
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6	-
	Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9Cl) (PFOA-C ₅ H ₅ N)	95658-47-2	-
	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7	-
	1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N)	927835-01-6	-
	Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8	-
	Perfluorooctanoyl Bromide (PFOA-Br)	222037-87-8	-
-	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.1
-	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.1
-	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.1
-	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.01
8:2 monoPAP, its salts	Mono-[2-(perfluorooctyl)ethyl]phosphate (8:2 monoPAP)	57678-03-2	0.1
	8:2 Fluorotelomer diammonium phosphate	93857-44-4	-
	Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	-
	Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	-
	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	-
	Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	-
	Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	-
	Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	-
8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.01
	1H,1H,2H,2H-Perfluorodencane sulfonate acid Potassium salt (8:2 FTS-K)	438237-73-1	-
	1H,1H,2H,2H-Perfluorodencane sulfonate acid Ammonium salt (8:2 FTS-NH ₄)	149724-40-3	-
	1H,1H,2H,2H-Perfluorodencane sulfonate acid Sodium salt (8:2 FTS-Na)	27619-96-1	-
	8: 2 Fluorotelomer sulfonate (anion) (8:2 FTS(anion))	481071-78-7	-
	2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)	27619-90-5	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
-	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.1
-	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.1
-	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.1
H2PFDA, its salts	2H,2H-Perfluorodecane acid (H2PFDA)	27854-31-5	0.01
	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	882489-14-7	-
-	1H,1H,2H,2H-Perfluorodecyl iodide (8_2 FTI)	2043-53-0	0.1
-	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3)	101947-16-4	0.1
4HPFUnA, its salts	2H,2H,3H,3H-Perfluoroundecanoic Acid (4HPFUnA)	34598-33-9	0.01
	Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K)	83310-58-1	-
	Lithium 3-(perfluorooctyl)propanoate (H4PFUnA-Li)	67304-23-8	-
-	1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	0.1
8:2diPAP, its salts	Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate (8:2diPAP)	678-41-1	0.01
	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	-
	Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	-
	Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2diPAP-NH ₄)	93776-20-6	-
	8:2 Fluorotelomer phosphate diester ion	1411713-91-1	-
PFNA, its salts	Perfluorononan-1-oic acid (PFNA)	375-95-1	0.01
	Perfluorononanoate Na-salt (PFNA-Na)	21049-39-8	-
	Perfluorononanoate ammonium salt (APFN)	4149-60-4	-
	Potassium perfluorononanoate (PFNA-K)	21049-38-7	-
	Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	-
	Silver perfluorononanoate (PFNA-Ag)	7358-16-9	-
	Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6	-
	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	-
	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	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFNA, its salts	Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₂)	327176-80-7	-
	Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	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-NH ₃ (C ₆ H ₅))	95682-67-0	-
	Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2	-
	Perfluorononanoate (anion)	72007-68-2	-
	4-[[6-Methoxy-3-pyridazinyl]sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0	-
	Perfluorononanoic anhydride (PFNAA)	228407-54-3	-
	Perfluorononanoyl chloride (PFNA-Cl)	52447-23-1	-
	Perfluorononanoyl fluoride (PFNA-F)	558-95-2	-
	Heptadecafluorononanoyl Bromide (PFNA-Br)	261503-42-8	-
-	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.01
-	((Perfluorooctyl)ethyl)phosphonic acid	80220-63-9	0.02
PFDA, its salts	Perfluorodecane acid (PFDA)	335-76-2	0.01
	Perfluorodecanoate Na-salt (PFDA-Na)	3830-45-3	-
	Perfluorodecanoate ammonium salt (APFDA)	3108-42-7	-
	Potassium perfluorodecanoate (PFDA-K*)	51604-85-4	-
	Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	-
	Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	-
	Perfluorodecanoate (anion)	73829-36-4	-
	Perfluorodecanoic anhydride (PFDA)	942199-24-8	-
	Nonadecafluorodecanoyl chloride (PFDA-Cl)	307-38-0	-
	Nonadecafluorodecanoyl Fluoride (PFDA-F)	-	-
PFDPA, its salts	Perfluorodecylphosphonic acid (PFDPA)	52299-26-0	0.01
	Perfluorodecylphosphonic Acid 4-Methylbenzamine	-	-
	Perfluorodecylphosphonic Acid Di-4-toluidine Salt	-	-
PFUnDA, its salts	Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.01
	Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5	-
	Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFUnDA, its salts	Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	-
	Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	-
	Perfluoroundecanoate (anion)	196859-54-8	-
PFDoDA, its salts	Perfluorododecanoic acid (PFDoDA)	307-55-1	0.01
	Ammonium perfluorododecanoate (APFDoDA)	3793-74-6	-
	Perfluorododecanoate (anion)	171978-95-3	-
PFDS, its salts	Perfluorodecane sulfonate (PFDS)	335-77-3	0.01
	Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7	-
	Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8	-
	Perfluoroaliphatic decan-sulfonate salt of NH ₄ (PFDS-NH ₄)	67906-42-7	-
	Perfluorodecane sulfonate (anion)	126105-34-8	-
	Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	-
	Perfluorodecanesulphonyl fluoride (PFDS-F)	307-51-7	-
	Perfluorodecanesulphonyl chloride (PFDS-Cl)	32779-61-6	-
PFTrDA, its salts	Pentacosfluorotridecanoic acid (PFTrDA)	72629-94-8	0.01
	Ammonium perfluorotridecanoate (PFTrDA-NH ₄)	4288-72-6	-
	Sodium perfluorotridecanoate (PFTrDA-Na)	60872-01-7	-
	Perfluorotridecanoate (anion)	862374-87-6	-
PFTDA, its salts	Perfluorotetradecanoic acid (PFTDA)	376-06-7	0.01
	Perfluorotetradecanoate (anion)	365971-87-5	-
-	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.1
-	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.1
-	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.1
-	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.1
10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.01
	1H,1H,2H,2H-Perfluorododecane sulfonic acid Sodium Salt (10:2 FTS-Na)	108026-35-3	-
	2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)	27619-91-6	-
-	1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	0.1
-	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.1
PFNS, its salts	Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.01
	Sodium perfluoro-1-nonesulfonate (PFNS-Na*)	98789-57-2	-
	Ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFNS, its salts	Potassium perfluorononanesulfonate (PFNS-K*)	29359-39-5	-
	Perfluorononane sulfonate (anion)	474511-07-4	-
	Perfluorononanesulfonyl fluoride (PFNS-F)	68259-06-3	-
PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.01
	Perfluoroundecanesulfonate (anion)	441296-91-9	-
PFDoDS, its salts	Perfluorododecane sulfonic acid (PFDoDS)	79780-39-5	0.01
	Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na*)	1260224-54-1	-
	Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3	-
	Perfluorododecane sulfonate (anion)	343629-43-6	-
PFTrDS, its salts	Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	0.01
	Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na*)	174675-49-1	-
10:2 diPAP, its salts	10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.1
	bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl] hydrogen phosphate, compound with 2,2'-iminodiethanol (1:1) (10:2 diPAP-C ₄ H ₁₁ O ₂)	57677-98-2	-
-	Perfluorododecyl iodide (PFDoDI)	307-60-8	0.1
-	Perfluorodecyl iodide (PFDI)	423-62-1	0.1
10:2 monoPAP, its salts	10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4	0.1
	10:2 Fluortelomer diammonium dihydrogen phosphate	93857-45-5	-
	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-Henicosafuorododecyl dihydrogen phosphate cyclohexylamine	2514858-66-1	-
PFPeDA, its salts	Perfluoropentadecanoic acid (PFPeDA, C15)	141074-63-7	0.1
	Nonacosafuoropentadecanoate (PFPeDA (anion))	1214264-29-5	-
PFHxDA, its salts	Perfluorohexadecanoic acid (PFHxDA, C16)	67905-19-5	0.01
	Hentriacontafuorohexadecanoate anion (PFHxDA (anion))	1214264-30-8	-
PFODA, its salts	Perfluorooctadecanoic acid (PFODA, C18))	16517-11-6	0.01
	Perfluorooctadecanoate anion (PFODA (anion))	798556-82-8	-
PFMPA, its salts	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.01
	Perfluoro-3-methoxypropanoic anhydride (PFMPAA)	42566-65-4	-
-	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.01
-	Nonafuoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.01

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NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Group Name	Substance Name	CAS No.	MDL (mg/kg)
ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.01
	Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄)	958445-44-8	-
	Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	-
	Potassium 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA-K)	1087271-46-2	-
	2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA (anion))	2127366-90-7	-
-	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2FTOH)	2043-47-2	0.4
HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid (HFPO-DA)	13252-13-6	0.01
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-(2R)-	75579-39-4	-
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-(2S)-	75579-40-7	-
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts	67118-55-2	-
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts	62037-80-3	-
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-, sodium salt (1:1)	67963-75-1	-
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-, ion(1-)	122499-17-6	-
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-, compd. with N-propyl-1-propanamine (1:1)	165951-17-7	-
	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, compd. with N,N-diethylethanamine (1:1) (9CI)	165951-18-8	-
	4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	-
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides	2062-98-8	-
	Benzoic acid, 2,3,6-triiodo-, (1-methyl-3-piperidinyl)methyl ester, compd. with 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoro propoxy)propanoate (1:1) (HFPO-C ₁₄ H ₁₆ I ₃ NO ₂)	2412106-69-3	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.01
	1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	-
	4: 2 Fluorotelomer sulfonate (4:2FTS(anion))	414911-30-1	-
FOSAA, its salts	Perfluorooctane sulfonamidoacetic acid (FOSAA)	2806-24-8	0.01
	N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6	-
	N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	-
N-MeFOSAA, its salts	N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5	-
	N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	0.01
	2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7	-
N-EtFOSAA, its salts	Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5	-
	N-ethylperfluorooctane sulfonamidoacetic (N-EtFOSAA)	2991-50-6	0.01
	Potassium N-ethyl-N-((heptadecafluorooctyl)sulphonyl)glycinate (N-Et-FOSAA-K)	2991-51-7	-
	2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	-
	Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8	-
PFPeS, its salts	Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	-
	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.01
	Sodium perfluoro-1-pentanesulfonate (PFPeS-Na*)	630402-22-1	-
	Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	-
	Ammonium perfluoropentanesulfonate (PFPeS-NH ₄ *)	68259-09-6	-
	Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1	-
	Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6	-
Perfluoropentane sulfonate (anion)	175905-36-9	-	

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFPeS, its salts	Triethylammonium perfluoropentane sulfonate	72033-42-2	-
	Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1	-
3:3 FTCA, its salts	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.01
	4,4,5,5,6,6,6-Heptafluorohexanoate (3:3 FTCA(anion))	1169706-83-5	-
	Sodium 3-(perfluoropropyl)propanoate (3:3FTCA-Na)	1207462-13-2	-
-	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.01
5:3 FTCA, its salts	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.01
	2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	-
PFEEESA, its salts	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	0.01
	Potassium perfluoro(2-ethoxyethane) sulfonate (PFEEESA-K)	117205-07-9	-
	Sodium perfluoro(2-ethoxyethane) sulfonate (PFEEESA-Na)	113507-87-2	-
9Cl-PF ₃ ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF ₃ ONS)	756426-58-1	0.01
	Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF ₃ ONS-K)	73606-19-6	-
	Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF ₃ ONS-NH ₄)	1383434-28-3	-
	Perfluoro(2-[(6-chlorohexyl)oxy]ethanesulfonate) (9Cl-PF ₃ ONS (anion))	1621485-21-9	-
11Cl-PF ₃ OUdS, its salts	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF ₃ OUdS)	763051-92-9	0.01
	Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF ₃ OUdS-K)	83329-89-9	-
	2-[(8-Chloro-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluorooctyl)oxy]-1,1,2,2-tetrafluoroethanesulfonate (11Cl-PF ₃ OUdS (anion))	2196242-82-5	-
-	2-(N-ethylperfluorooctanesulfamido)ethyl acrylate (EtFOSAC)	423-82-5	0.1
11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.1
	potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafafluoroundecanoate (11H-PFUnDA-K)	307-71-1	-
	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafafluoroundecanoate (11H-PFUnDA-NH ₄)	5081-02-7	-
	11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFPrA, its salts	Pentafluoropropionate acid (PFPrA)	422-64-0	0.1
	Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	-
	Silver pentafluoropropionate (PFPrA-Ag)	509-09-1	-
	Potassium pentafluoropropionate (PFPrA-K)	378-76-7	-
	Ammonium pentafluoropropionate (PFPrA-NH ₄)	2730-58-7	-
	Perfluoropropanoate (PFPrA(anion))	44864-55-3	-
	Pentafluoropropanoic acid-1-phenylpiperazine (1/1) (PFPrA-C10H14N2)	893-87-8	-
	Pentafluoropropanoic acid-piperazine (1/1) (PFPrA-C4H10N2)	1690-94-4	-
	Imidazole perfluoropropionic acid salt (PFPrA-C3H4N2)	200705-90-4	-
-	1H,1H,2H,2H-Perfluorodecyltrichlorosilane	78560-44-8	0.1
-	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	83048-65-1	
-	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.01
-	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.01
-	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.01
-	2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.01
6:6 PFPI, its salts	6:6 Perfluorophosphinic acid (6:6 PFPI)	40143-77-9	0.01
	Sodium bis(perfluorohexyl)phosphinate (6:6 PFPI-Na)	70609-44-8	-
	Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPI-Yb)	500776-72-7	-
	Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPI-Er)	500776-73-8	-
-	6:8 Perfluorophosphinic acid (6:8 PFPI)	610800-34-5	0.01
8:8 PFPI, its salts	8:8 Perfluorophosphinic acid (8:8 PFPI)	40143-79-1	0.01
	Sodium bis(perfluorooctyl)phosphinate (8:8 PFPI-Na)	500776-69-2	-
	Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)	500776-70-5	-
	Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)	500776-71-6	-
-	1H,1H,2H,2H-Heptadecafluorodecyl acetate (8:2 FTOAc)	37858-04-1	0.1
-	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, 1-acetate (10:2 FTOAc)	37858-05-2	0.1
HFPO-TA, its salts	Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TA)	13252-14-7	0.2
	Potassium perfluoro(2-(2-propoxypropoxy)propanoate) (HFPO-TA-K)	67118-57-4	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
HFPO-TA, its salts	Perfluoro-2,5-dimethyl-3,6-dioxananoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	-
	2,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propanoic acid--ammonia (HFPO-TA-NH ₄)	13043-05-5	-
	Hexafluoropropene oxide trimer (HFPO-TA-F)	2641-34-1	-
PFEtS, its salts	Pentafluoroethane sulfonic acid (PFEtS)	354-88-1	0.01
	Pentafluoroethanesulfonate (PFEtS (anion))	108410-37-3	-
	Potassium pentafluoroethane-1-sulfonate (PFEtS-K)	2837-92-5	-
6:2 diPAP, its salts	Bis[2-(perfluorohexyl)ethyl] Phosphate (6:2 diPAP)	57677-95-9	0.01
	Sodium bis[2-(perfluorohexyl)ethyl] phosphate (6:2 diPAP-Na)	407582-79-0	-
	Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion (6:2 diPAP(anion))	667465-18-1	-
TFSI, its salts	Trifluoromethanesulfonimide (TFSI)	82113-65-3	0.01
	Pyrrrolidinium, 1-butyl-1-methyl-, salt with 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (1:1)	223437-11-4	-
	Tributylmethyl Ammonium Bis(trifluoromethanesulfonyl) Imide	405514-94-5	-
	Lithium bis((trifluoromethyl)sulfonyl)azanide (TFSI-Li)	90076-65-6	-
	1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6	-
	Zinc(II) Bis(trifluoromethanesulfonyl)imide ((TFSI)2-Zn)	168106-25-0	-
	Manganese(II) Bis(trifluoromethanesulfonyl)imide ((TFSI)2-Mn)	207861-55-0	-
	Nickel bis(trifluoromethylsulfonyl)imide ((TFSI)2-Ni)	207861-63-0	-
	Copper(II) Bis(trifluoromethanesulfonyl)imide ((TFSI)2-Cu)	162715-14-2	-
	(OC-6-11)-Tris(1,1,1-trifluoro-N-((trifluoromethyl)sulfonyl-kappaO)methanesulfonamidato-kappaO)iron ((TFSI)3-Fe)	207861-59-4	-
	Copper(II) trifluoromethanesulfonimide xhydrate ((TFSI)2-CuH ₂ O)	1334406-76-6	-
	Silver Bis(trifluoromethanesulfonyl)imide (TFSI-Ag)	189114-61-2	-
	Copper bis(trifluoromethylsulfonyl)imide (TFSI-Cu)	291300-50-0	-
	Barium(II) Bis(trifluoromethanesulfonyl)imide ((TFSI)2-Ba)	168106-22-7	-

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
TFSI, its salts	Strontium bis(trifluoromethylsulfonyl)imide	862121-57-1	-
	1-Methylimidazole Bis(trifluoromethanesulfonyl)imide	353239-08-4	-
	1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	174899-82-2	-
	1,2-Dimethyl-3-propylimidazolium bis(trifluoromethylsulfonyl)imide	169051-76-7	-
	Magnesium bis(trifluoromethylsulfonyl)imide (TFSI-Mg)	133395-16-1	-
	1-Methyl-3-propylimidazolium Bis(trifluoromethanesulfonyl)imide	216299-72-8	-
	1-Butyl-1-methylpiperidinium bis(trifluoromethylsulfonyl)imide	623580-02-9	-
	1-Methyl-3-n-octylimidazolium Bis(trifluoromethanesulfonyl)imide	178631-04-4	-
	Tris[bis(trifluoromethylsulfonyl)amino] ytterbium ((TFSI)3-Yb)	175438-43-4	-
	Butyltrimethylammonium bis(trifluoromethylsulfonyl)imide	258273-75-5	-
	Cobalt bis(trifluoromethylsulfonyl)imide ((TFSI)2-Co)	207861-61-8	-
	Potassium Bis(trifluoromethanesulfonyl)imide (TFSI-K)	90076-67-8	-
	1-Methyl-1-propylpiperidin-1-ium Bis((trifluoromethyl)sulfonyl)amide	608140-12-1	-
	1-Ethyl-2,3-dimethylimidazolium Bis(trifluoromethanesulfonyl)imide	174899-90-2	-
	1-Methyl-1-propylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-05-6	-
	1,1,1-trifluoro-N-trifluoromethanesulfonyl-N-((N-trifluoromethanesulfonyl)trifluoromethanesulfonamido)calcio)methanesulfonamide ((TFSI)2-Ca)	165324-09-4	-
	Choline bis(trifluoromethylsulfonyl)imide	827027-25-8	-
1-Dodecyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide	404001-48-5	-	
1-Ethyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide	223436-99-5	-	

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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Group Name	Substance Name	CAS No.	MDL (mg/kg)
TFSI, its salts	Diethylmethylsulfonium bis(trifluoromethylsulfonyl)imide	792188-85-3	-
	Bis(trifluoromethylsulfonyl)azanide;mercury(2+) ((TFSI)2-Hg)	104715-41-5	-
	Cerium(III) Bis(trifluoromethanesulfonyl)imide (TFSI-Ce)	1046099-39-1	-
	Cadmium bis{bis[(trifluoromethyl)sulfonyl]azanide} (TFSI-Cd)	1263295-73-3	-
	Bis(trifluoromethanesulfonyl)imide Lanthanum(III) Salt (TFSI-La)	168106-26-1	-
	Scandium(III) bis(trifluoromethylsulfonyl)imide (TFSI-Sc)	176726-07-1	-
	Yttrium(III) bis(trifluoromethanesulfonyl)imide (TFSI-Y)	189114-86-1	-
	Vanadium tris(bis(trifluoromethanesulfonyl)imide) (TFSI-V)	207861-54-9	-
	Iron(II) bis(trifluoromethanesulfonyl)imide (TFSI-Fe)	207861-57-2	-
	Tin(II) bis(trifluoromethylsulfonyl)imide (TFSI-Sn)	460096-08-6	-
	Cesium bis(trifluoromethanesulfonyl)imide (TFSI-Cs)	91742-16-4	-
	Sodium bis(trifluoromethanesulfonyl)imide (TFSI-Na)	91742-21-1	-
TFMS, its salts	Trifluoromethane sulfonic acid (TFMS)	1493-13-6	0.01
	Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9	-
	Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	-
	Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2	-
	Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	-
	Trifluoromethanesulfonic anhydride	358-23-6	-
	Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	-
	Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2	-
	Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	-
	Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2	-
	Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	-
	Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4	-
	Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	-
	Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	-
	Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	-
	Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	-
Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	-	

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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Group Name	Substance Name	CAS No.	MDL (mg/kg)
TFMS, its salts	Tetrabutylammonium trifluoromethanesulfonate	35895-70-6	-
	Methyltrioctylammonium trifluoromethanesulfonate	121107-18-4	-
	Imidazole trifluoromethanesulfonate	29727-06-8	-
	Trifluoroacetyl Trifluoromethanesulfonate	68602-57-3	-
	Lanthanum(III) trifluoromethanesulfonate (TFMS-La)	52093-26-2	-
	Indium(III) trifluoromethanesulfonate (TFMS-In)	128008-30-0	-
	Samarium(III) trifluoromethanesulfonate (TFMS-Sm)	52093-28-4	-
	Ytterbium(III) trifluoromethanesulfonate (TFMS-Yb)	54761-04-5	-
	Thulium(III) trifluoromethanesulfonate (TFMS-Tm)	141478-68-4	-
	Tetraethylammonium trifluoromethanesulfonate	35895-69-3	-
	1-Fluoro-3,5-dichloropyridinium triflate	107264-06-2	-
	Triethylamine salt of trifluoromethanesulfonic acid	646-58-2	-
	Triphenylphosphonium anhydride triflate	72450-51-2	-
	N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate	120611-30-5	-
	Diphenylammonium Trifluoromethanesulfonate	164411-06-7	-
	1-(3-aminoazetid-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid	2060047-56-3	-
	Guanidine trifluoromethanesulfonic acid	153756-25-3	-
	Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)	501693-46-5	-
	Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)	74468-24-9	-
	O-Pivaloylhydroxylamine trifluoromethanesulfonate	1293990-73-4	-
	Trifluoromethanesulfonyl chloride	421-83-0	-
	(2-Pyridylmethyl)sulfonyl chloride triflate	882564-09-2	-
	Trifluoromethanesulfonyl bromide	15458-53-4	-
	Mercury(II) trifluoromethanesulfonate (TFMS-Hg)	49540-00-3	-
Dysprosium(III) tris(trifluoromethanesulfonate) (TFMS-Dy)	139177-62-1	-	
Manganese bis(trifluoromethanesulfonate) (TFMS-Mn)	55120-76-8	-	
Pentaammine(trifluoromethanesulfonato)osmium(III) triflate	83781-30-0	-	
Lutetium(III) trifluoromethanesulfonate (TFMS-Lu)	126857-69-0	-	
Terbium(III) trifluoromethanesulfonate (TFMS-Tb)	148980-31-8	-	

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Group Name	Substance Name	CAS No.	MDL (mg/kg)
TFMS, its salts	Neodymium(III) trifluoromethanesulfonate (TFMS-Nd)	34622-08-7	-
	Ammonium trifluoromethanesulfonate (TFMS-NH4)	38542-94-8	-
	Holmium(III) trifluoromethanesulfonate (TFMS-Ho)	139177-63-2	-
	Trifluoromethanesulfonate	37181-39-8	-
	Praseodymium(III) trifluoromethanesulfonate (TFMS-Pr)	52093-27-3	-
	Bismuth(III) trifluoromethanesulfonate (TFMS-Bi)	88189-03-1	-
	Europium(III) trifluoromethanesulfonate (TFMS-Eu)	52093-25-1	-
	Erbium(III) trifluoromethanesulfonate (TFMS-Er)	139177-64-3	-
	Gallium(III) trifluoromethanesulfonate (TFMS-Ga)	74974-60-0	-
	N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate	380230-73-9	-
	Methanesulfonic acid, trifluoro-, calcium salt (TFMS-Ga)	55120-75-7	-
	Thallium(1+) trifluoromethanesulfonate (TFMS-Tl)	73491-36-8	-
	Hafnium(IV) Trifluoromethanesulfonate (TFMS-Hf)	161337-67-3	-
	1-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Pentadecafluorooctyl)pyridinium trifluoromethanesulfonate	25061-59-0	-
	Tetrapropylammonium trifluoromethanesulphonate (TFMS- N(C3H7)4)	35925-48-5	-
	(Heptafluoropropyl)(phenyl)iodanium trifluoromethanesulfonate	77758-79-3	-
	Phenyl(tridecafluorohexyl)iodanium trifluoromethanesulfonate	77758-84-0	-
	(Heptadecafluorooctyl)(phenyl)iodanium trifluoromethanesulfonate	77758-89-5	-
	(1,1,1,2,3,3,3-Heptafluoropropan-2-yl)(phenyl)iodanium trifluoromethanesulfonate	82959-18-0	-
	Triethylmethylammonium triflate	90756-35-7	-
Pentafluoroanilinium trifluoromethanesulfonate	912823-79-1	-	
Tributylmethylammonium trifluoromethanesulfonate	944557-37-3	-	
PFPrS, its salts	Perfluoropropate sulfonic acid (PFPrS)	423-41-6	0.01
	Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9	-
-	1-pefluoroheptyl ethanol (7:2 secondary) (7:2s FTOH)	24015-83-6	0.2
-	4:2 Fluorotelomer iodide (4:2 FTI)	2043-55-2	0.2

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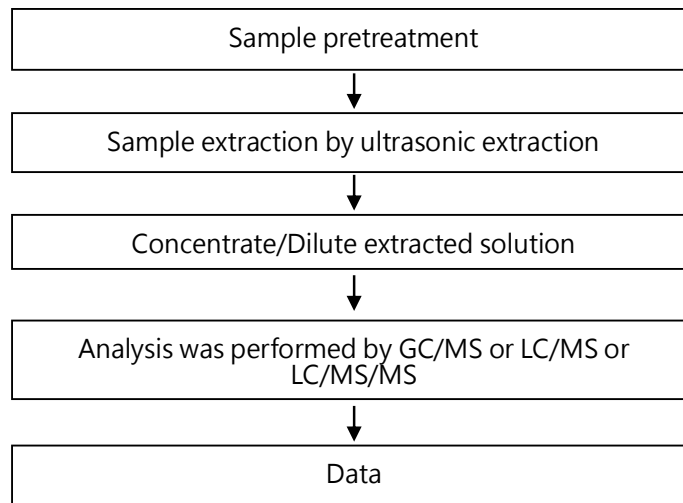
ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

Group Name	Substance Name	CAS No.	MDL (mg/kg)
PFHpSi, its salts	Perfluoroheptane-1-sulfinic acid (PFHpSi)	769067-51-8	0.01
	1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na)	68555-66-8	-
PFOPA, its salts	Perfluorooctylphosphonic acid (PFOPA)	40143-78-0	0.01
	(Heptadecafluorooctyl)phosphonic acid--4-methylaniline (1/1)	1263361-03-0	-
-	1H,1H-Perfluorooctylamine	307-29-9	0.2
-	Perfluoroheptanamide	2358-22-7	0.1
-	Perfluorobutyramide	662-50-0	0.2
-	1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	0.2
-	N-methylperfluoro-1-butanesulfonamide	68298-12-4	0.01
-	N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide	34455-03-3	0.01
BETI, its salts	Bis(pentafluoroethylsulfonyl)imide	152894-10-5	0.02
	Lithium Bis(pentafluoroethanesulfonyl)imide	132843-44-8	-
	Bis(perfluoroethylsulfonyl)imide anion	129318-46-3	-
	Sodium bis((perfluoroethyl)sulfonyl)amide	152894-04-7	-
	Potassium bis((perfluoroethyl)sulfonyl)amide	221203-22-1	-
	1-Ethyl-3-methylimidazolium bis(perfluoroethylsulfonyl)imide	216299-76-2	-
-	Perfluoro-2-ethoxypropanoic acid (PEPA)	267239-61-2	0.01
PFHxPA, its salts	Perfluorohexyl phosphonic acid	40143-76-8	0.01
	Perfluorohexylphosphonic Acid 4-Methylbenzamine	1263361-02-9	-
-	Perfluoro-3,6,9-trioxaundecane-1,11-dioic acid	55621-18-6	0.02
-	Perfluorononanedioic acid	23453-64-7	0.02
-	Perfluorooctanedioic acid	678-45-5	0.02
-	Perfluorohexyl ethylene (PFHxE)	25291-17-2	1
Ethyl perfluoroisobutyl ether and its isomers	Ethyl perfluoroisobutyl ether and its isomers	163702-05-4	10
	Perfluoroisobutyl ethyl ether	163702-06-5	-
-	1,1,1,2,2,3,4,5,5,5,-decafluoro-Pentane	138495-42-8	10
-	Trifluorotoluene	98-08-8	1
-	1-Chloro-4 (Trifluoromethyl)Benzene	98-56-6	1
-	1H,1H,2H,2H-Perfluorodecylmethylidichlorosilane	3102-79-2	0.1
-	Bisphenol AF (HFBPA)	1478-61-1	0.01

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Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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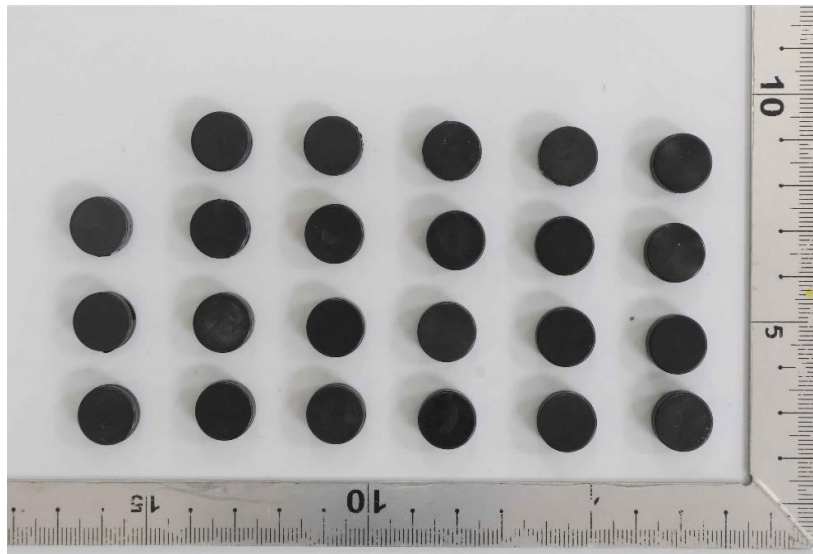
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ESCORT SEAL CO., LTD.

NO. 22, BEIYUAN RD., ZHONGLI DIST., TAOYUAN CITY 32063, TAIWAN

* The tested sample / part is marked by an arrow if it's shown on the photo. *

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