# Test Report (PFAS)



Client Name: KINGBOARD LAMINATES HOLDINGS LIMITED

Client Address: 23/F., DELTA HOUSE, NO. 3 ON YIU STREET, SHATIN, N.T. HONG KONG.

Sample Name: XPC

Model No.: KB-1150

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

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SGS Job No.: GZP26-030668

Sample Receiving Date: Oct 13, 2026

Testing Period: Oct 13, 2026 ~ Oct 21, 2026

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

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

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

**Summary:**

| | |
|---|---|
| 725 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie
Approved Signatory

Scan to see the report

6C3562C1

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**Test Sample:**

**Test Part Description:**

| SN ID | Sample No. | SGS Sample ID | Description |
|---|---|---|---|
| SN1 | A2 | CAN26-0290305-0001.C002 | Copper clad brown laminate(only test part without green "KB" printing) |

**725 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content**

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

**Test Results: (Substances in the PFAS list)**

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

**Notes:**
(1) The table above only shows detected PFAS, and PFAS that below MDL are not reported. Please refer to Appendix for the full list of tested PFAS.
(2) MDL = Method Detection Limit, ND = Not detected (lower than MDL).
(3) The target PFAS is prohibited, and this test requirement is quoted from the client. If PFAS is detected, it is recommended to refer to relevant regulations to confirm the relevant requirements of PFAS.
(4) ^=Substances refer to its salts/derivative listed in Appendix.
(5) The conclusion is only applicable to the substance list in the report.
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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(1) List of PFAS, its salts & derivatives

| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 1 | PFOS, its salts & derivatives | Perfluorooctane sulfonic acid (PFOS) | 1763-23-1 | 0.010 |
| 2 | | Potassium Perfluorooctanesulfonate (PFOS-K) | 2795-39-3 | -- |
| 3 | | Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) | 29457-72-5 | -- |
| 4 | | Sodium perfluorooctanesulfonate (PFOS-Na) | 4021-47-0 | -- |
| 5 | | Ammonium perfluorooctanesulfonate (PFOS-$NH_4$) | 29081-56-9 | -- |
| 6 | | Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$) | 70225-14-8 | -- |
| 7 | | Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$) | 56773-42-3 | -- |
| 8 | | N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-$N(C_{10}H_{21})_2(CH_3)_2$) | 251099-16-8 | -- |
| 9 | | TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$) | 111873-33-7 | -- |
| 10 | | Perfluorooctane Sulfonyl fluoride (PFOS-F) | 307-35-7 | -- |
| 11 | | Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg) | 91036-71-4 | -- |
| 12 | | Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate | 71463-74-6 | -- |
| 13 | | Perfluorooctanesulfonate | 45298-90-6 | -- |
| 14 | | Triethylammonium perfluorooctane sulfonate (PFOS-$NH(C_2H_5)_3$) | 54439-46-2 | -- |
| 15 | | Tetramethylammonium perfluorooctane sulfonate (PFOS-$N(CH_3)_4$) | 56773-44-5 | -- |
| 16 | | N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_3H_7)_3(C_5H_{11})$) | 56773-56-9 | -- |
| 17 | | N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_4H_9)_3(CH_3)$) | 124472-68-0 | -- |
| 18 | | Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1) | 213740-80-8 | -- |
| 19 | | Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate | 258341-99-0 | -- |
| 20 | | 1-Hexadecylpyridinium perfluoro-1-octanesulfonate | 334529-63-4 | -- |
| 21 | | N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate | 773895-92-4 | -- |
| 22 | | Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P ($C_4H_9)_4$)) | 2185049-59-4 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 23 | | Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$) | 2205029-08-7 | -- |
| 24 | | heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-$C_{15}H_{30}NO_2$) | 1203998-97-3 | -- |
| 25 | | Perfluorooctane sulfonic anhydride (PFOSAN) | 423-92-7 | -- |
| 26 | | Perfluoro-1-octanesulfonyl chloride (PFOS-Cl) | 423-60-9 | -- |
| 27 | FOSAA, its salts | Perfluorooctane sulfonamidoacetic Acid (FOSAA) | 2806-24-8 | 0.010 |
| 28 | | N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion)) | 909405-47-6 | -- |
| 29 | | N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) | 75260-69-4 | -- |
| 30 | | N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) | 115716-87-5 | -- |
| 31 | N-MeFOSAA, its salts | N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) | 2355-31-9 | 0.010 |
| 32 | | 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) | 909405-48-7 | -- |
| 33 | | Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) | 70281-93-5 | -- |
| 34 | | Cyclo-hexachloro (N-methyl- (N-(perfluorooctylsulphonyl) glycinato-O1:O1')) dihydroxytrichromium | 97298-47-0 | -- |
| 35 | N-EtFOSAA, its salts | N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) | 2991-50-6 | 0.010 |
| 36 | | Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) | 2991-51-7 | -- |
| 37 | | 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) | 909405-49-8 | -- |
| 38 | | Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-$NH_4$) | 2991-52-8 | -- |
| 39 | | Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) | 3871-50-9 | -- |
| 40 | | Diaquatetrachloro[mu-[N-ethyl-N-[(perfluorooctyl) sulfonyl]glycinato-O1:O1']]-mu-hydroxybis[2-methylpropanol]dichromium | 68891-96-3 | -- |
| 41 | -- | N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | 4151-50-2 | 0.010 |
| 42 | -- | N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | 31506-32-8 | 0.010 |
| 43 | -- | 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | 1691-99-2 | 0.010 |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 44 | -- | 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 24448-09-7 | 0.010 |
| 45 | PFOSA, its salts | Perfluorooctane Sulfonamide (PFOSA) | 754-91-6 | 0.010 |
| 46 | | Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) | 76752-79-9 | -- |
| 47 | | Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) | 76752-78-8 | -- |
| 48 | | Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) | 76752-70-0 | -- |
| 49 | | Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-$NH_4$) | 76752-72-2 | -- |
| 50 | | Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-$C_6H_{15}N$) | 76752-82-4 | -- |
| 51 | PFOA, its salts & derivatives | Perfluorooctanoic acid (PFOA) | 335-67-1 | 0.010 |
| 52 | | Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 | -- |
| 53 | | Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 | -- |
| 54 | | Silver perfluorooctanoate (PFOA-Ag) | 335-93-3 | -- |
| 55 | | Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 | -- |
| 56 | | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | -- |
| 57 | | Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 | -- |
| 58 | | Cobalt perfluorooctanoate (PFOA-Co) | 35965-01-6 | -- |
| 59 | | Cesium perfluorooctanoate (PFOA-Cs) | 17125-60-9 | -- |
| 60 | | 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 | -- |
| 61 | | Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-$NH(C_4H_{10}N)$) | 423-52-9 | -- |
| 62 | | Pentadecafluorooctanoate (anion) | 45285-51-6 | -- |
| 63 | | Perfluorooctanoic Anhydride | 33496-48-9 | -- |
| 64 | | N,N,N-Triethylethanaminium perfluorooctanoate | 98241-25-9 | -- |
| 65 | | Perfluorooctanoate N,N,N-Trimethylmethanaminium | 32609-65-7 | -- |
| 66 | | Tetrapropylammonium perfluorooctanoate | 277749-00-5 | -- |
| 67 | | Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-$K(H_2O)_2$) | 98065-31-7 | -- |
| 68 | | Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-$C_2H_7N$) | 1376936-03-6 | -- |
| 69 | | Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-$C_5H_5N$) | 95658-47-2 | -- |
| 70 | | pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$) | 1514-68-7 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 71 | | N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-$C_{11}H_{26}N$) | 927835-01-6 | -- |
| 72 | | Pentadecafluorooctanoyl chloride (PFOA-Cl) | 335-64-8 | -- |
| 73 | | Perfluorooctanoyl Bromide (PFOA-Br) | 222037-87-8 | -- |
| 74 | 8:2 FTS, its salts | 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) | 39108-34-4 | 0.010 |
| 75 | | Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K) | 438237-73-1 | -- |
| 76 | | Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-$NH_4$) | 149724-40-3 | -- |
| 77 | | Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na) | 27619-96-1 | -- |
| 78 | | 2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion)) | 481071-78-7 | -- |
| 79 | | 2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl) | 27619-90-5 | -- |
| 80 | -- | Methyl perfluorooctanoate (Me-PFOA) | 376-27-2 | 0.200 |
| 81 | -- | Ethyl perfluorooctanoate (Et-PFOA) | 3108-24-5 | 0.200 |
| 82 | -- | 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) | 27905-45-9 | 0.100 |
| 83 | -- | 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) | 1996-88-9 | 0.100 |
| 84 | -- | Perfluoro-1-iodooctane (PFOI) | 507-63-1 | 0.200 |
| 85 | 8:2 FTCA, its salts | 2H,2H-Perfluorodecane Acid (8:2 FTCA) | 27854-31-5 | 0.010 |
| 86 | | Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P($C_4H_9$)$_4$) | 882489-14-7 | -- |
| 87 | -- | 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) | 678-39-7 | 0.100 |
| 88 | -- | 1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) | 2043-53-0 | 0.100 |
| 89 | -- | 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi($OC_2H_5$)$_3$) | 101947-16-4 | 0.100 |
| 90 | 8:2diPAP, its salts | Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP) | 678-41-1 | 0.010 |
| 91 | | Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na) | 114519-85-6 | -- |
| 92 | | Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate | 57677-97-1 | -- |
| 93 | | Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-$NH_4$) | 93776-20-6 | -- |
| 94 | | 8:2 Fluorotelomer phosphate diester ion (1-) | 1411713-91-1 | -- |
| 95 | 8:3 FTCA, its salts | 2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA) | 34598-33-9 | 0.010 |
| 96 | | Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K) | 83310-58-1 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 97 | | 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li) | 67304-23-8 | -- |
| 98 | -- | 1H,1H,2H-Heptadecafluoro-1-decene (PFDE) | 21652-58-4 | 0.200 |
| 99 | -- | 3-Perfluoroheptyl propanoic acid (7:3 FTCA) | 812-70-4 | 0.010 |
| 100 | -- | 1H,1H,2H,2H-Perfluorodecyltrichlorosilane | 78560-44-8 | 0.100 |
| 101 | -- | 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane | 83048-65-1 | |
| 102 | -- | 2H-Perfluoro-2-decenoic acid (8:2 FTUCA) | 70887-84-2 | 0.010 |
| 103 | -- | 6:8 Perfluorophosphinic acid (6:8 PFPi) | 610800-34-5 | 0.010 |
| 104 | 8:8 PFPi, its salts | 8:8 Perfluorophosphinic acid (8:8 PFPi) | 40143-79-1 | 0.010 |
| 105 | | Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPi-Na) | 500776-69-2 | -- |
| 106 | | Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er) | 500776-70-5 | -- |
| 107 | | Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb) | 500776-71-6 | -- |
| 108 | -- | 1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) | 37858-04-1 | 0.100 |
| 109 | 8:2 monoPAP, its salts | 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) | 57678-03-2 | 0.100 |
| 110 | | 8:2 Fluorotelomer diammonium phosphate | 93857-44-4 | - |
| 111 | | Disodium 1H,1H,2H,2H-perfluorodecylphosphate | 438237-75-3 | - |
| 112 | | Ammonium bis[2-(perfluorohexyl)ethyl] phosphate | 1764-95-0 | - |
| 113 | | 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt | 92401-44-0 | - |
| 114 | | Sodium 1H,1H,2H,2H-perfluorooctylphosphate | 144965-22-0 | - |
| 115 | | Monopotassium monoperfluorohexyl ethylphosphate | 150033-28-6 | - |
| 116 | | Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate | 2353-52-8 | - |
| 117 | PFNA, its salts | Perfluorononane Acid (PFNA) | 375-95-1 | 0.010 |
| 118 | | Perfluorononanoate Na-Salt (PFNA-Na) | 21049-39-8 | -- |
| 119 | | Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-$NH_4$) | 4149-60-4 | -- |
| 120 | | Potassium perfluorononanoate (PFNA-K) | 21049-38-7 | -- |
| 121 | | Perfluorononanoate Li-Salt (PFNA-Li) | 60871-92-3 | -- |
| 122 | | Silver perfluorononanoate (PFNA-Ag) | 7358-16-9 | -- |
| 123 | | Methanaminium perfluorononanoate (PFNA-$NH_3(CH_3)$) | 77032-23-6 | -- |
| 124 | | 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-$NH_2(C_2H_5)_2$) | 77032-27-0 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 125 | | 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 | -- |
| 126 | | Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-$NH(C_2H_5)_3$) | 327176-80-7 | -- |
| 127 | | Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-$NH_2(C_5H_{10})$) | 95682-66-9 | -- |
| 128 | | 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-$NH_3(C_6H_5)$) | 95682-67-0 | -- |
| 129 | | Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-$NH_3(C_6H_{11})$) | 328531-06-2 | -- |
| 130 | | Perfluorononanoate (anion) | 72007-68-2 | -- |
| 131 | | 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-$C_{11}H_{12}N_4O_3S$) | 298703-33-0 | -- |
| 132 | | Perfluorononanoic anhydride (PFNAA) | 228407-54-3 | -- |
| 133 | | Perfluorononanoyl chloride (PFNA-Cl) | 52447-23-1 | -- |
| 134 | | Perfluorononanoyl fluoride (PFNA-F) | 558-95-2 | -- |
| 135 | | Heptadecafluorononanoyl Bromide (PFNA-Br) | 261503-42-8 | -- |
| 136 | PFDA, its salts | Perfluorodecane Acid (PFDA) | 335-76-2 | 0.010 |
| 137 | | Sodium perfluorodecanoate (PFDA-Na) | 3830-45-3 | -- |
| 138 | | Perfluorodecanoate ammonium salt (PFDA-$NH_4$) | 3108-42-7 | -- |
| 139 | | Potassium perfluorodecanoate (PFDA-K) | 51604-85-4 | -- |
| 140 | | Silver perfluorodecanoate (PFDA-Ag) | 5784-82-7 | -- |
| 141 | | Lithium perfluorodecanoate (PFDA-Li) | 84743-32-8 | -- |
| 142 | | Perfluorodecanoate (anion) | 73829-36-4 | -- |
| 143 | | Perfluorodecanoic anhydride (PFDAA) | 942199-24-8 | -- |
| 144 | | Nonadecafluorodecanoyl chloride (PFDA-Cl) | 307-38-0 | -- |
| 145 | | Nonadecafluorodecanoyl Fluoride (PFDA-F) | -- | -- |
| 146 | PFUnDA, its salts | Perfluoroundecanoic Acid (PFUnDA) | 2058-94-8 | 0.010 |
| 147 | | Perfluoroundecanoic acid sodium salt (PFUnDA-Na) | 60871-96-7 | -- |
| 148 | | Ammonium perfluoroundecanoate (PFUnDA-$NH_4$) | 4234-23-5 | -- |
| 149 | | Potassium perfluoroundecanoate (PFUnDA-K) | 30377-53-8 | -- |
| 150 | | Calcium perfluoroundecanoate (PFUnDA-Ca) | 97163-17-2 | -- |
| 151 | | Perfluoroundecanoate (anion) | 196859-54-8 | -- |
| 152 | PFDoDA, its salts | Perfluorododecanoic Acid (PFDoDA) | 307-55-1 | 0.010 |
| 153 | | Ammonium tricosafluorododecanoate (PFDoDA-$NH_4$) | 3793-74-6 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 154 | | Perfluorododecanoate (anion) | 171978-95-3 | -- |
| 155 | | Sodium perfluoro-n-dodecanoic acid (PFDoDA-Na) | 307-67-5 | -- |
| 156 | PFTrDA, its salts | Perfluorotridecanoic Acid (PFTrDA) | 72629-94-8 | 0.010 |
| 157 | | Ammonium perfluorotridecanoate (PFTrDA-$NH_4$) | 4288-72-6 | -- |
| 158 | | Sodium perfluorotridecanoate (PFTrDA-Na) | 60872-01-7 | -- |
| 159 | | Perfluorotridecanoate (anion) | 862374-87-6 | -- |
| 160 | PFTDA, its salts | Perfluorotetradecanoic Acid (PFTDA) | 376-06-7 | 0.010 |
| 161 | | Perfluorotetradecanoate (anion) | 365971-87-5 | -- |
| 162 | -- | Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA) | 172155-07-6 | 0.010 |
| 163 | PFDS, its salts | Perfluorodecane sulfonic acid (PFDS) | 335-77-3 | 0.010 |
| 164 | | Sodium perfluorodecanesulfonate (PFDS-Na) | 2806-15-7 | -- |
| 165 | | Potassium perfluorodecanesulfonate (PFDS-K) | 2806-16-8 | -- |
| 166 | | Ammonium perfluorodecanesulfonate (PFDS-$NH_4$) | 67906-42-7 | -- |
| 167 | | Perfluorodecane sulfonate (anion) | 126105-34-8 | -- |
| 168 | | Perfluorodecane sulfonic anhydride (PFDSA) | 51667-62-0 | -- |
| 169 | | Perfluorodecanesulphonyl fluoride (PFDS-F) | 307-51-7 | -- |
| 170 | | Perfluorodecanesulphonyl chloride (PFDS-Cl) | 32779-61-6 | -- |
| 171 | -- | 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) | 865-86-1 | 0.100 |
| 172 | -- | 1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) | 17741-60-5 | 0.100 |
| 173 | -- | 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) | 2144-54-9 | 0.100 |
| 174 | -- | 1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH) | 39239-77-5 | 0.100 |
| 175 | 10:2 FTS, its salts | 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) | 120226-60-0 | 0.100 |
| 176 | | 1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na) | 108026-35-3 | -- |
| 177 | | 2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl) | 27619-91-6 | -- |
| 178 | -- | 1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI) | 2043-54-1 | 0.100 |
| 179 | -- | 1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) | 30046-31-2 | 0.100 |
| 180 | PFNS, its salts | Perfluoro nonane sulfonic acid (PFNS) | 68259-12-1 | 0.010 |
| 181 | | Sodium perfluoro-1-nonanesulfonate (PFNS-Na) | 98789-57-2 | -- |
| 182 | | ammonium nonadecafluorononanesulphonate (PFNS-$NH_4$) | 17202-41-4 | -- |
| 183 | | Potassium perfluorononanesulfonate (PFNS-K) | 29359-39-5 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 184 | | Perfluorononane sulfonate (anion) | 474511-07-4 | -- |
| 185 | | Perfluorononanesulfonyl fluoride (PFNS-F) | 68259-06-3 | -- |
| 186 | PFUnDS, its salts | Perfluoroundecane sulfonic acid (PFUnDS) | 749786-16-1 | 0.010 |
| 187 | | Perfluoroundecanesulfonate (anion) | 441296-91-9 | -- |
| 188 | PFDoDS, its salts | Perfluorododecanesulfonic acid (PFDoDS) | 79780-39-5 | 0.010 |
| 189 | | Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na) | 1260224-54-1 | -- |
| 190 | | Potassium perfluorododecanesulfonate (PFDoDS-K) | 85187-17-3 | -- |
| 191 | | Perfluorododecane sulfonate (anion) | 343629-43-6 | -- |
| 192 | PFTrDS, its salts | Perfluorotridecane sulfonic acid (PFTrDS) | 791563-89-8 | 0.010 |
| 193 | | Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na) | 174675-49-1 | -- |
| 194 | 10:2 diPAP, its salts | 10:2 Fluorotelomer phosphate diester (10:2 diPAP) | 1895-26-7 | 0.100 |
| 195 | | Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-$C_4H_{11}O_2$) | 57677-98-2 | -- |
| 196 | -- | Perfluorodecyl iodide (PFDI) | 423-62-1 | 0.100 |
| 197 | -- | Perfluorododecyl iodide (PFDoDI) | 307-60-8 | 0.100 |
| 198 | -- | 2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA) | 70887-94-4 | 0.010 |
| 199 | -- | 2-Perfluorodecyl ethanoic acid (10:2 FTCA) | 53826-13-4 | 0.010 |
| 200 | -- | 1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc) | 37858-05-2 | 0.100 |
| 201 | PFHxS, its salts & derivatives | Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | 0.010 |
| 202 | | Perfluorohexanesulfonate Na-salt (PFHxS-Na) | 82382-12-5 | -- |
| 203 | | Perfluorohexanesulfonate K-salt (PFHxS-K) | 3871-99-6 | -- |
| 204 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) (PFHxS-Li) | 55120-77-9 | -- |
| 205 | | Ammonium perfluorohexane-1-sulphonate (PFHxS-$NH_4$) | 68259-08-5 | -- |
| 206 | | Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP) | 1000597-52-3 | -- |
| 207 | | N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N($C_4H_9$)$_4$) | 108427-54-9 | -- |
| 208 | | N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N($C_2H_5$)$_4$) | 108427-55-0 | -- |
| 209 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-$NC_4H_9$) | 1187817-57-7 | -- |
| 210 | | Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, | 1310480-24-0 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| | | 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (Calculated in terms of PFHxS) (PFHxS-$(NC_{10}H_{14})_3C_5H_4$) | | |
| 211 | | Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$(NC_8H_{10})_2C_{13}H_{12}$) | 1310480-27-3 | -- |
| 212 | | Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$(NC_8H_{10})_2C_{17}H_{12}$) | 1310480-28-4 | -- |
| 213 | | Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-$C_{42}H_{70}O_{35}$) | 1329995-45-0 | -- |
| 214 | | Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)(PFHxS-$C_{48}H_{80}O_{40}$) | 1329995-69-8 | -- |
| 215 | | Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS) | 144116-10-9 | -- |
| 216 | | Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$C_{44}H_{37}N_2O_2$) | 1462414-59-0 | -- |
| 217 | | Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$I(C_6H_5)_2$) | 153443-35-7 | -- |
| 218 | | Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA) | 189274-31-5 | -- |
| 219 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)(PFHxS-$NH_2(CH_3)_3$) | 202189-84-2 | -- |
| 220 | | Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$I(C_6H_4)_2(C_4H_9)_2$) | 213740-81-9 | -- |
| 221 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga) | 341035-71-0 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 222 | | Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S($C_7H_7$)$_2$$C_6H_5$) | 341548-85-4 | -- |
| 223 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)(PFHxS-Sc) | 350836-93-0 | -- |
| 224 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)(PFHxS-Nd) | 41184-65-0 | -- |
| 225 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)(PFHxS-Y) | 41242-12-0 | -- |
| 226 | | Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)( PFHxS-$S_3$($C_6H_5$)$_4$($C_6H_4$)$_2$) | 421555-73-9 | -- |
| 227 | | Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic(PFHxS-I ($C_6H_4$)$_2$($C_5H_{11}$) | 421555-74-0 | -- |
| 228 | | Perfluorohexanesulphonyl fluoride (PFHxS-F) | 423-50-7 | -- |
| 229 | | Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S($C_6H_4$)$_3$($C_4H_9$)$_3$) | 425670-70-8 | -- |
| 230 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn) | 70136-72-0 | -- |
| 231 | | Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH($C_2H_5O$)$_2$) | 70225-16-0 | -- |
| 232 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)(PFHxS-N($C_2H_5$)$_3$) | 72033-41-1 | -- |
| 233 | | Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) (PFHxS-I($C_6H_4$)$_2$($C_4H_9$)$_2$) | 866621-50-3 | -- |
| 234 | | Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)( PFHxS-S($C_6H_5$)$_2$$C_7H_7$) | 910606-39-2 | -- |
| 235 | | Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) ( PFHxS-S($C_6H_5$)$_2$$C_{10}H_9O_2$) | 911027-68-4 | -- |
| 236 | | 1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) | 92011-17-1 | -- |
| 237 | | Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, | 928049-42-7 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| | | 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$SC_{28}H_{31}O_4$) | | |
| 238 | | Perfluorohexylsulfonyl chloride (PFHxS-Cl) | 55591-23-6 | -- |
| 239 | | 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[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer) | 911027-69-5 | -- |
| 240 | | Perfluorohexane sulfonate (anion) | 108427-53-8 | -- |
| 241 | | Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P ($C_4H_9)_4$)) | 2310194-12-6 | -- |
| 242 | -- | N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA) | 68259-15-4 | 0.010 |
| 243 | -- | Perfluorohexane sulfonamide (PFHxSA) | 41997-13-1 | 0.010 |
| 244 | -- | N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA) | 50598-28-2 | 0.010 |
| 245 | -- | 2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA) | 67584-57-0 | 0.200 |
| 246 | -- | 2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester | 67584-61-6 | 0.200 |
| 247 | -- | 2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester | 67906-70-1 | 0.200 |
| 248 | -- | 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE) | 68555-75-9 | 0.010 |
| 249 | EtFHxSAA, its salts | Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA) | 68957-32-4 | 0.010 |
| 250 | | Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K) | 67584-53-6 | -- |
| 251 | | Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na) | 68555-70-4 | -- |
| 252 | PFHxA, its salts & derivatives | Perfluorohexane Acid (PFHxA) | 307-24-4 | 0.010 |
| 253 | | Ammonium perfluorohexanoate (APFHx) | 21615-47-4 | -- |
| 254 | | Sodium perfluorohexanoate (PFHxA-Na) | 2923-26-4 | -- |
| 255 | | Potassium perfluorohexanoate (PFHxA-K) | 3109-94-2 | -- |
| 256 | | Perfluorohexanoyl fluoride (PFHxA-F) | 355-38-4 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 257 | | Silver perfluorohexanoate (PFHxA-Ag) | 336-02-7 | -- |
| 258 | | Lithium perfluorohexanoate (PFHxA-Li) | 90430-61-8 | -- |
| 259 | | Perfluorohexanoic anhydride | 308-13-4 | -- |
| 260 | | Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8CI,9CI) | 423-47-2 | -- |
| 261 | | Perfluorohexanoate (anion) | 92612-52-7 | -- |
| 262 | | Perfluorohexanoyl chloride (PFHxA-Cl) | 335-53-5 | -- |
| 263 | | Perfluorohexanoyl bromide (PFHxA-Br) | 1404193-66-3 | -- |
| 264 | | Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-$C_6H_{15}N$) | 565225-91-4 | -- |
| 265 | | 1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-$C_{10}H_{14}N_2$) | 985-60-4 | -- |
| 266 | -- | 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) | 647-42-7 | 0.100 |
| 267 | -- | 1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) | 2043-47-2 | 0.400 |
| 268 | -- | 1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) | 17527-29-6 | 0.200 |
| 269 | 6:2 FTS, its salts | 1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) | 27619-97-2 | 0.010 |
| 270 | | Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na) | 27619-94-9 | -- |
| 271 | | Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K) | 59587-38-1 | -- |
| 272 | | Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-$NH_4$) | 59587-39-2 | -- |
| 273 | | 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 | -- |
| 274 | | 2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion)) | 425670-75-3 | -- |
| 275 | | 2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl) | 27619-89-2 | -- |
| 276 | | 2-(Perfluorohexyl)ethanesulfonyl fluoride (6:2 FTS-F) | -- | -- |
| 277 | -- | 1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi($OC_2H_5$)$_3$) | 51851-37-7 | 0.500 |
| 278 | -- | 1H,1H,2H,2H-Perfluorooctyltrichlorosilane | 78560-45-9 | 0.200 |
| 279 | -- | 1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi($OCH_3$)$_3$) | 85857-16-5 | |
| 280 | -- | 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I) | 355-43-1 | 0.200 |
| 281 | -- | 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane | 38550-34-4 | 0.200 |
| 282 | -- | N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide n-oxide | 80475-32-7 | 0.100 |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 283 | -- | thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester | 26650-09-9 | 0.200 |
| 284 | 6:2 monoPAP, its salts | 6:2 Fluorotelomer phosphate monoester (6:2 monoPAP) | 57678-01-0 | 0.100 |
| 285 | | Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-$NH_4NH_4$) | 1000852-37-8 | - |
| 286 | -- | 2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA) | 27854-30-4 | 0.100 |
| 287 | -- | 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH) | 34451-26-8 | 0.200 |
| 288 | -- | 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSi$Me_2$Cl) | 102488-47-1 | 0.200 |
| 289 | -- | 1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI) | 212563-43-4 | 0.200 |
| 290 | -- | 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI) | 89889-20-3 | 0.200 |
| 291 | 6:2 FTPA, its salts | Perfluorohexyl ethylphosphonic acid (6:2 FTPA) | 252237-40-4 | 0.100 |
| 292 | | Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox $FHP_2OH$-Na(PFHXPA-Na)) | 1189052-95-6 | -- |
| 293 | -- | 1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- (5:1 FTOH) | 423-46-1 | 0.200 |
| 294 | -- | 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH) | 375-82-6 | 0.200 |
| 295 | -- | 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH) | 80806-68-4 | 0.200 |
| 296 | -- | 3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH) | 914637-05-1 | 0.200 |
| 297 | -- | 1-(perfluorohexyl)octane ($F_6H_8$) | 133331-77-8 | 0.200 |
| 298 | -- | 1H,1H-Tridecafluoroheptylamine (6:1 $FTNH_2$) | 423-49-4 | 0.200 |
| 299 | -- | 2H-Perfluoro-2-octenoic acid (6:2 FTUCA) | 70887-88-6 | 0.010 |
| 300 | 6:6 PFPi, its salts | 6:6 Perfluorophosphinic acid (6:6 PFPi) | 40143-77-9 | 0.010 |
| 301 | | Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPi-Na) | 70609-44-8 | -- |
| 302 | | Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb) | 500776-72-7 | -- |
| 303 | | Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er) | 500776-73-8 | -- |
| 304 | PFBA, its salts | Perfluorobutane Acid (PFBA) | 375-22-4 | 0.010 |
| 305 | | Ammonium perfluorobutanoate (PFBA-$NH_4$) | 10495-86-0 | -- |
| 306 | | Sodium perfluorobutanoate (PFBA-Na) | 2218-54-4 | -- |
| 307 | | Potassium heptafluorobutanoate (PFBA-K) | 2966-54-3 | -- |
| 308 | | Silver perfluorobutanoate (PFBA-Ag) | 3794-64-7 | -- |
| 309 | | Lithium perfluorobutanoate (PFBA-Li) | 4146-76-3 | -- |
| 310 | | Heptafluorobutanoic acid-piperazine (1:1) | 375-04-2 | -- |
| 311 | | Perfluorobutanoate (anion) | 45048-62-2 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 312 | | 4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1) (PFBA-$C_6H_4ClF_6N_2P$) | -- | -- |
| 313 | | Heptafluorobutanoic acid-1-phenylpiperazine (1:1) (PFBA-$C_{10}H_{14}N_2$) | 2263-11-8 | -- |
| 314 | | Perfluorobutanoic anhydride (PFBAA) | 336-59-4 | -- |
| 315 | | Heptafluorobutanoic acid calcium salt (PFBA-Ca) | 2366-98-5 | -- |
| 316 | | Rhodium(II) perfluorobutyrate dimer (PFBA-Rh) | 73755-28-9 | -- |
| 317 | | Perfluorobutyryl chloride (PFBA-Cl) | 375-16-6 | -- |
| 318 | | Perfluorobutanoyl fluoride (PFBA-F) | 335-42-2 | -- |
| 319 | | Heptafluorobutanoyl Bromide (PFBA-Br) | 375-13-3 | -- |
| 320 | | 4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1) | -- | -- |
| 321 | | N5-(5-Hydroxy-4,6-dimethylpyrimidin-2-yl)-L-ornithine- heptafluorobutanoic acid (1/2) | 936233-19-1 | -- |
| 322 | PFBS, its salts & derivatives | Perfluorobutanesulfonic acid (PFBS) | 375-73-5 | 0.010 |
| 323 | | Perfluorobutanesulfonate K-salt (PFBS-K) | 29420-49-3 | -- |
| 324 | | Perfluorobutanesulfonic Acid Hydrate (PFBS-$H_2O$) | 59933-66-3 | -- |
| 325 | | lithium perfluorobutanesulfonate (PFBS-Li) | 131651-65-5 | -- |
| 326 | | Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS) | 144317-44-2 | -- |
| 327 | | Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-$S(CH_3)_2C_6H_5$) | 220133-51-7 | -- |
| 328 | | Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-$P(C_4H_9)_4$) | 220689-12-3 | -- |
| 329 | | N,N,N,-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-$N(C_2H_5)_4$) | 25628-08-4 | -- |
| 330 | | Nonafluorobutanesulfonyl fluoride (PFBS-F) | 375-72-4 | -- |
| 331 | | Morpholinium perfluorobutanesulfonate (PFBS-$NC_4H_9O$) | 503155-89-3 | -- |
| 332 | | Magnesium perfluorobutanesulfonate (PFBS-Mg) | 507453-86-3 | -- |
| 333 | | Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-$NH_4$) | 68259-10-9 | -- |
| 334 | | 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-$SC_{18}H_{23}O$) | 209482-18-8 | -- |
| 335 | | 1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl) | 2991-84-6 | -- |
| 336 | | Sodium perfluorobutanesulfonate (PFBS-Na) | 60453-92-1 | -- |
| 337 | | Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-$I(C_6H_4)_2(C_4H_9)_2$) | 194999-85-4 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 338 | | 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH($C_2H_5O)_2$) | 70225-18-2 | -- |
| 339 | | Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N($C_4H_9)_4$)) | 108427-52-7 | -- |
| 340 | | Diphenyliodanium nonafluorobutane-1-sulfonate((PFBS-I($C_6H_5)_2$)) | 194999-82-1 | -- |
| 341 | | Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 241806-75-7 | -- |
| 342 | | Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 425670-64-0 | -- |
| 343 | | Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 867373-18-0 | -- |
| 344 | | Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 1015420-87-7 | -- |
| 345 | | 1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 905972-83-0 | -- |
| 346 | | 1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 1001557-05-6 | -- |
| 347 | | 2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 374571-81-0 | -- |
| 348 | | Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 857285-80-4 | -- |
| 349 | | 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 124472-66-8 | -- |
| 350 | | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn) | 502457-69-4 | -- |
| 351 | | 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | 56773-55-8 | -- |
| 352 | | Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N($CH_3)_4$) | 25628-17-5 | -- |
| 353 | | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride | 36913-91-4 | |
| 354 | | Perfluorobutane sulfonate (anion) | 45187-15-3 | -- |
| 355 | | 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate | EC: 468-770-4 | -- |
| 356 | | Triethylammonium perfluorobutane sulfonate | 182059-38-7 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 357 | | N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1) | 334529-55-4 | -- |
| 358 | | 1-Hexadecylpyridinium perfluoro-1-butanesulfonate | 334529-62-3 | -- |
| 359 | | 1-Butylpyridinium perfluoro-1-butanesulfonate | 334529-64-5 | -- |
| 360 | | N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanesulfonate | 495417-51-1 | -- |
| 361 | | Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1) | 722538-68-3 | -- |
| 362 | | N-Ethyl-N-methyl-N-propylammonium perfluorobutanesulfonate | 1186599-90-5 | -- |
| 363 | | [4-(2-Methylpropyl)phenyl]-diphenylsulfanium;1,1,2,2,3,3,4, 4,4-nonafluorobutane-1-sulfonate | 1375211-36-1 | -- |
| 364 | | Diphenyl 4-tertbutylphenylsulfonium nonafluorobutanesulfonate | 258872-05-8 | -- |
| 365 | | Diphenyl(4-methylphenyl)sulfonium nonafluorobutanesulfonate | 284474-28-8 | -- |
| 366 | | Trimethylsilyl nonafluorobutanesulfonate | 68734-62-3 | -- |
| 367 | PFPeA, its salts | Perfluoropentane Acid (PFPeA) | 2706-90-3 | 0.010 |
| 368 | | Sodium perfluoropentanoate(PFPeA-Na) | 2706-89-0 | -- |
| 369 | | Potassium perfluoropentanoate (PFPeA-K) | 336-23-2 | -- |
| 370 | | Lithium perfluoropentanoate (PFPeA-Li) | 198482-22-3 | -- |
| 371 | | Silver perfluoropentanoate (PFPeA-Ag) | 2795-30-4 | -- |
| 372 | | Ammonium perfluoropentanoate(PFPeA-$NH_4$ ) | 68259-11-0 | -- |
| 373 | | Perfluoropentanoate (anion) | 45167-47-3 | -- |
| 374 | | Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-$C_8H_{10}N_2S$) | 64808-55-5 | -- |
| 375 | | Perfluoropentanoic anhydride (PFPeAA) | 308-28-1 | -- |
| 376 | | Perfluoropentanoyl chloride (PFPeA-Cl) | 375-60-0 | -- |
| 377 | | Perfluoropentanoyl fluoride (PFPeA-F) | 375-62-2 | -- |
| 378 | | Nonafluoropentanoyl bromide (PFPeA-Br) | 159623-35-5 | -- |
| 379 | HPFHpA, its salts | 7H-Dodecanefluoroheptane Acid (HPFHpA) | 1546-95-8 | 0.010 |
| 380 | | Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na) | 2264-25-7 | -- |
| 381 | | Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-$NH_4$) | 376-34-1 | -- |
| 382 | | 7-H-Perfluoroheptanoate (HPFHpA(anion)) | 69681-35-2 | -- |
| 383 | | Potassium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-K) | -- | -- |
| 384 | | Lithium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Li) | -- | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 385 | | 7H-Perfluoroheptanoyl chloride (HPFHpA-Cl) | 41405-35-0 | -- |
| 386 | | 7H-Perfluoroheptanoyl fluoride (HPFHpA-F) | 5927-65-1 | -- |
| 387 | | 7H-Perfluoroheptanoyl bromide (HPFHpA-Br) | 141893-84-7 | -- |
| 388 | PFHpS, its salts | Perfluoroheptanesulfonic Acid (PFHpS) | 375-92-8 | 0.010 |
| 389 | | Perfluoroheptanesulfonate Na-salt (PFHpS-Na) | 21934-50-9 | -- |
| 390 | | Potassium Perfluoroheptanesulfonate (PFHpS-K) | 60270-55-5 | -- |
| 391 | | Ammonium perfluoroheptanesulfonate (PFHpS-$NH_4$) | 68259-07-4 | -- |
| 392 | | Lithium perfluoroheptanesulfonate (PFHpS-Li) | 117806-54-9 | -- |
| 393 | | 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 | -- |
| 394 | | Perfluoroheptane sulfonate (anion) | 146689-46-5 | -- |
| 395 | | Triethylammonium perfluoroheptane sulfonate | 72033-40-0 | -- |
| 396 | | Tetraethylammonium perfluoroheptane sulfonate | 439863-97-5 | -- |
| 397 | | Perfluoroheptane sulfonic anhydride (PFHpSA) | 140429-92-1 | -- |
| 398 | | Perfluoroheptanesulfonyl fluoride (PFHpS-F) | 335-71-7 | -- |
| 399 | | Perfluoroheptanesulfonyl chloride(PFHpS-Cl) | 33018-82-5 | -- |
| 400 | PFHpA, its salts | Perfluoroheptane Acid (PFHpA) | 375-85-9 | 0.010 |
| 401 | | Sodium perfluoroheptanoate (PFHpA-Na) | 20109-59-5 | -- |
| 402 | | Potassium perfluoroheptanoate (PFHpA-K) | 21049-36-5 | -- |
| 403 | | Ammonium perfluoroheptanoate (PFHpA-$NH_4$) | 6130-43-4 | -- |
| 404 | | Cesium perfluoroheptanoate (PFHpA-Cs) | 171198-24-6 | -- |
| 405 | | Silver perfluoroheptanoate (PFHpA-Ag) | 424-05-5 | -- |
| 406 | | Lithium perfluoroheptanoate (PFHpA-Li) | 60871-90-1 | -- |
| 407 | | Perfluoroheptanoate (anion) | 120885-29-2 | -- |
| 408 | | Perfluoroheptanoic anhydride (PFHpAA) | 78225-99-7 | -- |
| 409 | | Perfluoroheptanoyl chloride (PFHpA-Cl) | 52447-22-0 | -- |
| 410 | | Perfluoroheptanoyl fluoride (PFHpA-F) | 375-84-8 | -- |
| 411 | HFPO-DA, its salts & derivatives | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) | 13252-13-6 | 0.010 |
| 412 | | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-$NH_4$) | 62037-80-3 | -- |
| 413 | | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K) | 67118-55-2 | -- |
| 414 | | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F) | 2062-98-8 | -- |
| 415 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)- | 75579-39-4 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 416 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)- | 75579-40-7 | -- |
| 417 | | Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate | 67963-75-1 | -- |
| 418 | | Perfluoro(2-propoxypropanoate) | 122499-17-6 | -- |
| 419 | | 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1) | 165951-17-7 | -- |
| 420 | | Triethylaminium perfluoro-2-propoxypropanoate | 165951-18-8 | -- |
| 421 | | 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate | 298703-31-8 | -- |
| 422 | | 2,3,6-Triiodobenzoic acid (1-methyl-3-piperidinyl)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1) (HFPO-$C_{14}H_{16}I_3NO_2$) | 2412106-69-3 | -- |
| 423 | 4:2 FTS, its salts | 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) | 757124-72-4 | 0.010 |
| 424 | | 1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt | 27619-93-8 | -- |
| 425 | | 4:2 Fluorotelomer sulfonate (4:2 FTS(anion)) | 414911-30-1 | -- |
| 426 | PFPeS, its salts | Perfluoropentane sulfonic acid (PFPeS) | 2706-91-4 | 0.010 |
| 427 | | Sodium perfluoro-1-pentanesulfonate (PFPeS-Na) | 630402-22-1 | -- |
| 428 | | Potassium perfluoropentane-1-sulphonate (PFPeS-K) | 3872-25-1 | -- |
| 429 | | Ammonium perfluoropentanesulfonate (PFPeS-$NH_4$) | 68259-09-6 | -- |
| 430 | | Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate | 70225-17-1 | -- |
| 431 | | Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li) | 1046864-81-6 | -- |
| 432 | | Perfluoropentane sulfonate (anion) | 175905-36-9 | -- |
| 433 | | Triethylammonium perfluoropentane sulfonate | 72033-42-2 | -- |
| 434 | | Perfluoropentane sulfonic anhydride (PFPeSA) | 161877-72-1 | -- |
| 435 | -- | 2-Perfluorohexyl ethanoic acid (6:2 FTCA) | 53826-12-3 | 0.010 |
| 436 | 5:3 FTCA, its salts | 3-Perfluoropentyl propanoic acid (5:3 FTCA) | 914637-49-3 | 0.010 |
| 437 | | 2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion)) | 1799325-94-2 | -- |
| 438 | PFHxDA, its salts | Perfluorohexadecanoic Acid (PFHxDA) | 67905-19-5 | 0.010 |
| 439 | | Hentriacontafluorohexadecanoate anion (PFHxDA(anion)) | 1214264-30-8 | -- |
| 440 | -- | Perfluoroheptadecanoic acid (PFHpDA) | 57475-95-3 | 0.010 |
| 441 | | Perfluorooctadecanoic Acid (PFODA) | 16517-11-6 | 0.010 |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 442 | PFODA, its salts | Perfluorooctadecanoate anion (PFODA(anion)) | 798556-82-8 | -- |
| 443 | | Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-pentatriacontafluorooctadecanoate | -- | -- |
| 444 | | Sodium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-pentatriacontafluorooctadecanoate | -- | -- |
| 445 | | Lithium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-pentatriacontafluorooctadecanoate | -- | -- |
| 446 | -- | Perfluorononadecanoic acid (PFNDA) | 133921-38-7 | 0.010 |
| 447 | -- | Eicosanoic acid, nonatriacontafluoro ($C_{20}$ PFCA) | 68310-12-3 | 0.010 |
| 448 | -- | Perfluoroheneicosanoic acid ($C_{21}$ PFCA) | 2920913-30-8 | 0.010 |
| 449 | -- | 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) | 2144-53-8 | 0.200 |
| 450 | ADONA, its salts | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | 0.010 |
| 451 | | Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-$NH_4$) | 958445-44-8 | -- |
| 452 | | Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na) | 2250081-67-3 | -- |
| 453 | | Potassium 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA-K) | 1087271-46-2 | -- |
| 454 | | 2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA (anion)) | 2127366-90-7 | -- |
| 455 | PFMPA, its salts | Perfluoro-3-methoxypropanoic acid (PFMPA) | 377-73-1 | 0.010 |
| 456 | | Perfluoro-3-methoxypropanoic anhydride (PFMPAA) | 42566-65-4 | -- |
| 457 | -- | Perfluoro-4-methoxybutanoic acid (PFMBA) | 863090-89-5 | 0.010 |
| 458 | -- | Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 151772-58-6 | 0.010 |
| 459 | 9Cl-$PF_3ONS$, its salts | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-$PF_3ONS$) | 756426-58-1 | 0.010 |
| 460 | | Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-$PF_3ONS$-K) | 73606-19-6 | -- |
| 461 | | Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-$PF_3ONS$-$NH_4$) | 1383434-28-3 | -- |
| 462 | | Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonate) (9Cl-$PF_3ONS$(anion)) | 1621485-21-9 | -- |
| 463 | | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-$PF_3OUdS$) | 763051-92-9 | 0.010 |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 464 | 11Cl-$PF_3OUdS$, its salts | Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-$PF_3OUdS$-K) | 83329-89-9 | -- |
| 465 | | 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-$PF_3OUdS$ (anion)) | 2196242-82-5 | -- |
| 466 | PFEESA, its salts | Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA) | 113507-82-7 | 0.010 |
| 467 | | Potassium perfluoro(2-ethoxyethane) sulfonate (PFEESA-K) | 117205-07-9 | -- |
| 468 | | Sodium perfluoro(2-ethoxyethane) sulfonate (PFEESA-Na) | 113507-87-2 | -- |
| 469 | 3:3 FTCA, its salts | 3-Perfluoropropyl propanoic acid (3:3 FTCA) | 356-02-5 | 0.010 |
| 470 | | 4,4,5,5,6,6,6-Heptafluorohexanoate (3:3 FTCA(anion)) | 1169706-83-5 | -- |
| 471 | | Sodium 3-(perfluoropropyl)propanoate (3:3 FTCA-Na) | 1207462-13-2 | -- |
| 472 | PFPeDA, its salts | Pentadecanoic acid, nonacosafluoro (PFPeDA) | 141074-63-7 | 0.010 |
| 473 | | Nonacosafluoropentadecanoate (PFPeDA(anion)) | 1214264-29-5 | -- |
| 474 | -- | 1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA) | 1799-84-4 | 0.200 |
| 475 | -- | 2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC) | 423-82-5 | 0.200 |
| 476 | -- | 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI) | 2043-57-4 | 0.200 |
| 477 | PFBSA, its salts | Perfluorobutane sulfonamides (PFBSA) | 30334-69-1 | 0.100 |
| 478 | | Nonafluorobutanesulfonamide ammonia salt (FBSA-NH4) | 131003-86-6 | -- |
| 479 | | Potassium (perfluorobutanesulfonyl)azanide (FBSA-K) | 289042-19-9 | -- |
| 480 | -- | 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-$NC_3H_8O$) | 34454-97-2 | 0.010 |
| 481 | 11H-PFUnDA, its salts | 11H-Perfluoroundecanoic acid (11H-PFUnDA) | 1765-48-6 | 0.100 |
| 482 | | Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-K) | 307-71-1 | -- |
| 483 | | Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-$NH_4$) | 5081-02-7 | -- |
| 484 | | 11-H-Perfluoroundecanoate (11H-PFUnDA(anion)) | 69681-37-4 | -- |
| 485 | PFPrA, its salts | Pentafluoropropionic acid (PFPrA) | 422-64-0 | 0.100 |
| 486 | | Sodium pentafluoropropionate (PFPrA-Na) | 378-77-8 | -- |
| 487 | | Silver pentafluoropropionate (PFPrA-Ag) | 509-09-1 | -- |
| 488 | | Potassium pentafluoropropionate (PFPrA-K) | 378-76-7 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 489 | | Ammonium pentafluoropropionate (PFPrA-$NH_4$) | 2730-58-7 | -- |
| 490 | | Perfluoropropanoate (PFPrA(anion)) | 44864-55-3 | -- |
| 491 | | Pentafluoropropanoic acid-1-phenylpiperazine (1/1) (PFPrA-$C_{10}H_{14}N_2$) | 893-87-8 | -- |
| 492 | | Pentafluoropropanoic acid-piperazine (1/1) (PFPrA-$C_4H_{10}N_2$) | 1690-94-4 | -- |
| 493 | | Imidazole perfluoropropionic acid salt (PFPrA-$C_3H_4N_2$) | 200705-90-4 | -- |
| 494 | HFPO-TA, its salts | Hexafluoropropylene oxide trimer acid (HFPO-TA) | 13252-14-7 | 0.200 |
| 495 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]-, potassium salt (HFPO-TA-K) | 67118-57-4 | -- |
| 496 | | Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na) | 67963-76-2 | -- |
| 497 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-$NH_4$) | 13043-05-5 | -- |
| 498 | | Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F) | 2641-34-1 | -- |
| 499 | | Triethylaminium perfluoro-2-(2-propoxypropoxy)propanoate (HFPO-TA-$NH(C_2H_5)_3$) | 165951-19-9 | -- |
| 500 | | Methanaminium perfluoro-2-(2-propoxypropoxy)propanoate | 328065-29-8 | -- |
| 501 | | 2,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propanoic acid--N-methylmethanamine (1/1) | 328065-54-9 | -- |
| 502 | PFEtS, its salts | Perfluoroethane sulfonic acid (PFEtS) | 354-88-1 | 0.010 |
| 503 | | Pentafluoroethanesulfonate (PFEtS (anion)) | 108410-37-3 | -- |
| 504 | | Potassium pentafluoroethane-1-sulfonate (PFEtS-K) | 2837-92-5 | -- |
| 505 | 6:2 diPAP, its salts | 6:2 Fluorotelomer phosphate diester (6:2 diPAP) | 57677-95-9 | 0.010 |
| 506 | | Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na) | 407582-79-0 | -- |
| 507 | | Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2 diPAP(Anion)) | 667465-18-1 | -- |
| 508 | TFSI, its salts | Bis(trifluoromethane)sulfonimide (TFSI) | 82113-65-3 | 0.010 |
| 509 | | 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide | 223437-11-4 | -- |
| 510 | | Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide | 405514-94-5 | -- |
| 511 | | Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li) | 90076-65-6 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 512 | | 1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide | 433337-23-6 | -- |
| 513 | | Zinc(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Zn) | 168106-25-0 | -- |
| 514 | | Manganese(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Mn) | 207861-55-0 | -- |
| 515 | | Nickel bis(trifluoromethylsulfonyl)imide ($(TFSI)_2$-Ni) | 207861-63-0 | -- |
| 516 | | Copper(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Cu) | 162715-14-2 | -- |
| 517 | | (OC-6-11)-Tris(1,1,1-trifluoro-N-((trifluoromethyl)sulfonyl-kappaO) methanesulfonamidato-kappaO)iron ($(TFSI)_3$-Fe) | 207861-59-4 | -- |
| 518 | | Copper(II) trifluoromethanesulfonimide hydrate ($(TFSI)_2$-$CuH_2O$) | 1334406-76-6 | -- |
| 519 | | Silver Bis(trifluoromethanesulfonyl)imide (TFSI-Ag) | 189114-61-2 | -- |
| 520 | | Copper bis(trifluoromethylsulfonyl)imide (TFSI-Cu) | 291300-50-0 | -- |
| 521 | | Barium(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Ba) | 168106-22-7 | -- |
| 522 | | Strontium bis(trifluoromethylsulfonyl)imide | 862121-57-1 | -- |
| 523 | | 1-Methylimidazole Bis(trifluoromethanesulfonyl)imide | 353239-08-4 | -- |
| 524 | | 1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide | 174899-82-2 | -- |
| 525 | | 1,2-Dimethyl-3-propylimidazolium bis(trifluoromethylsulfonyl)imide | 169051-76-7 | -- |
| 526 | | Magnesium bis(trifluoromethylsulfonyl)imide (TFSI-Mg) | 133395-16-1 | -- |
| 527 | | 1-Methyl-3-propylimidazolium Bis(trifluoromethanesulfonyl)imide | 216299-72-8 | -- |
| 528 | | 1-Butyl-1-methylpiperidinium bis(trifluoromethylsulfonyl)imide | 623580-02-9 | -- |
| 529 | | 1-Methyl-3-n-octylimidazolium Bis(trifluoromethanesulfonyl)imide | 178631-04-4 | -- |
| 530 | | Tris[bis(trifluoromethylsulfonyl)amino] ytterbium ($(TFSI)_3$-Yb) | 175438-43-4 | -- |
| 531 | | Butyltrimethylammonium bis(trifluoromethylsulfonyl)imide | 258273-75-5 | -- |
| 532 | | Cobalt bis(trifluoromethylsulfonyl)imide ($(TFSI)_2$-Co) | 207861-61-8 | -- |
| 533 | | Potassium Bis(trifluoromethanesulfonyl)imide (TFSI-K) | 90076-67-8 | -- |
| 534 | | 1-Methyl-1-propylpiperidin-1-ium Bis((trifluoromethyl)sulfonyl)amide | 608140-12-1 | -- |
| 535 | | 1-Ethyl-2,3-dimethylimidazolium Bis(trifluoromethanesulfonyl)imide | 174899-90-2 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 536 | | 1-Methyl-1-propylpyrrolidinium Bis(trifluoromethanesulfonyl)imide | 223437-05-6 | -- |
| 537 | | 1,1,1-trifluoro-N-trifluoromethanesulfonyl-N-((N-trifluoromethanesulfonyltrifluoromethanesulfonamido)calcio)methanesulfonamide ($(TFSI)_2$-Ca) | 165324-09-4 | -- |
| 538 | | Choline bis(trifluoromethylsulfonyl)imide | 827027-25-8 | -- |
| 539 | | 1-Dodecyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide | 404001-48-5 | -- |
| 540 | | 1-Ethyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide | 223436-99-5 | -- |
| 541 | | Diethylmethylsulfonium bis(trifluoromethylsulfonyl)imide | 792188-85-3 | -- |
| 542 | | Bis(trifluoromethylsulfonyl)azanide;mercury(2+) ($(TFSI)_2$-Hg) | 104715-41-5 | -- |
| 543 | | Cerium(III) Bis(trifluoromethanesulfonyl)imide (TFSI-Ce) | 1046099-39-1 | -- |
| 544 | | Cadmium bis{bis[(trifluoromethyl)sulfonyl]azanide} (TFSI-Cd) | 1263295-73-3 | -- |
| 545 | | Bis(trifluoromethanesulfonyl)imide Lanthanum(III) Salt (TFSI-La) | 168106-26-1 | -- |
| 546 | | Scandium(III) bis(trifluoromethylsulfonyl)imide (TFSI-Sc) | 176726-07-1 | -- |
| 547 | | Yttrium(III) bis(trifluoromethanesulfonyl)imide (TFSI-Y) | 189114-86-1 | -- |
| 548 | | Vanadium tris(bis(trifluoromethanesulfon)imide) (TFSI-V) | 207861-54-9 | -- |
| 549 | | Iron(II) bis(trifluoromethanesulfonyl)imide (TFSI-Fe) | 207861-57-2 | -- |
| 550 | | Tin(II) bis(trifluoromethylsulfonyl)imide (TFSI-Sn) | 460096-08-6 | -- |
| 551 | | Cesium bis(trifluoromethanesulfonyl)imide (TFSI-Cs) | 91742-16-4 | -- |
| 552 | | Sodium bis(trifluoromethanesulfonyl)imide (TFSI-Na) | 91742-21-1 | -- |
| 553 | 10:2 monoPAP, its salts | 10:2 Fluorotelomer phosphate monoester (10:2 monoPAP) | 57678-05-4 | 0.100 |
| 554 | | 10:2 Fluorotelomer diammonium dihydrogen phosphate | 93857-45-5 | -- |
| 555 | | 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12.12,12-Henicosafluorododecyl dihydrogen phosphate cyclohexylamine | 2514858-66-1 | -- |
| 556 | -- | N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide | 852527-50-5 | 0.010 |
| 557 | TFMS, its salts | Trifluoromethane sulfonic acid (TFMS) | 1493-13-6 | 0.010 |
| 558 | | Trifluoromethane sulfonic acid Sodium salt (TFMS-Na) | 2926-30-9 | -- |
| 559 | | Silver trifluoromethanesulfonate (TFMS-Ag) | 2923-28-6 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 560 | | Zinc trifluoromethanesulfonate (TFMS-Zn) | 54010-75-2 | -- |
| 561 | | Scandium trifluoromethanesulfonate (TFMS-Sc) | 144026-79-9 | -- |
| 562 | | Trifluoromethanesulfonic anhydride | 358-23-6 | -- |
| 563 | | Lithium trifluoromethanesulfonate (TFMS-Li) | 33454-82-9 | -- |
| 564 | | Copper(II) trifluoromethanesulfonate (TFMS-Cu) | 34946-82-2 | -- |
| 565 | | Barium trifluoromethanesulfonate (TFMS-Ba) | 2794-60-7 | -- |
| 566 | | Cerium(IV) trifluoromethanesulfonate (TFMS-Ce) | 107792-63-2 | -- |
| 567 | | Magnesium trifluoromethanesulfonate (TFMS-Mg) | 60871-83-2 | -- |
| 568 | | Potassium trifluoromethanesulfonate (TFMS-K) | 2926-27-4 | -- |
| 569 | | Nickel(II) Trifluoromethanesulfonate (TFMS-Ni) | 60871-84-3 | -- |
| 570 | | Tin(II) trifluoromethanesulfonate (TFMS-Sn) | 62086-04-8 | -- |
| 571 | | Yttrium(III) trifluoromethanesulfonate (TFMS-Y) | 52093-30-8 | -- |
| 572 | | Iron(III) trifluoromethanesulfonate (TFMS-Fe) | 63295-48-7 | -- |
| 573 | | Cerium(III) Trifluoromethanesulfonate (TFMS-Ce) | 76089-77-5 | -- |
| 574 | | Tetrabutylammonium trifluoromethanesulfonate | 35895-70-6 | -- |
| 575 | | Methyltrioctylammonium trifluoromethanesulfonate | 121107-18-4 | -- |
| 576 | | Imidazole trifluoromethanesulfonate | 29727-06-8 | -- |
| 577 | | Trifluoroacetyl Trifluoromethanesulfonate | 68602-57-3 | -- |
| 578 | | Lanthanum(III) trifluoromethanesulfonate(TFMS-La) | 52093-26-2 | -- |
| 579 | | Indium(III) trifluoromethanesulfonate(TFMS-In) | 128008-30-0 | -- |
| 580 | | Samarium(III) trifluoromethanesulfonate(TFMS-Sm) | 52093-28-4 | -- |
| 581 | | Ytterbium(III) trifluoromethanesulfonate(TFMS-Yb) | 54761-04-5 | -- |
| 582 | | Thulium(III) trifluoromethanesulfonate(TFMS-Tm) | 141478-68-4 | -- |
| 583 | | Tetraethylammonium trifluoromethanesulfonate | 35895-69-3 | -- |
| 584 | | 1-Fluoro-3,5-dichloropyridinium triflate | 107264-06-2 | -- |
| 585 | | Triethylamine salt of trifluoromethanesulfonic acid | 646-58-2 | -- |
| 586 | | Triphenylphosphonium anhydride triflate | 72450-51-2 | -- |
| 587 | | N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate | 120611-30-5 | -- |
| 588 | | Diphenylammonium Trifluoromethanesulfonate | 164411-06-7 | -- |
| 589 | | 1-(3-aminoazetidin-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid | 2060047-56-3 | -- |
| 590 | | Guanidine trifluoromethanesulfonic acid | 153756-25-3 | -- |
| 591 | | Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1) | 501693-46-5 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 592 | | Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3) | 74468-24-9 | -- |
| 593 | | O-Pivaloylhydroxylamine trifluoromethanesulfonate | 1293990-73-4 | -- |
| 594 | | Trifluoromethanesulfonyl chloride | 421-83-0 | -- |
| 595 | | (2-Pyridylmethyl)sulfonyl chloride triflate | 882564-09-2 | -- |
| 596 | | Trifluoromethanesulfonyl bromide | 15458-53-4 | -- |
| 597 | | Mercury(II) trifluoromethanesulfonate(TFMS-Hg) | 49540-00-3 | -- |
| 598 | | Dysprosium(III) tris(trifluoromethanesulfonate)(TFMS-Dy) | 139177-62-1 | -- |
| 599 | | Manganese bis(trifluoromethanesulfonate)(TFMS-Mn) | 55120-76-8 | -- |
| 600 | | Pentaammine(trifluoromethanesulfonato)osmium(III) triflate | 83781-30-0 | -- |
| 601 | | Lutetium(III) trifluoromethanesulfonate(TFMS-Lu) | 126857-69-0 | -- |
| 602 | | Terbium(III) trifluoromethanesulfonate(TFMS-Tb) | 148980-31-8 | -- |
| 603 | | Neodymium(III) trifluoromethanesulfonate(TFMS-Nd) | 34622-08-7 | -- |
| 604 | | Ammonium trifluoromethanesulfonate(TFMS-$NH_4$) | 38542-94-8 | -- |
| 605 | | Holmium(III) trifluoromethanesulfonate(TFMS-Ho) | 139177-63-2 | -- |
| 606 | | Trifluoromethanesulfonate | 37181-39-8 | -- |
| 607 | | Praseodymium(III) trifluoromethanesulfonate(TFMS-Pr) | 52093-27-3 | -- |
| 608 | | Bismuth(III) trifluoromethanesulfonate(TFMS-Bi) | 88189-03-1 | -- |
| 609 | | Europium(III) trifluoromethanesulfonate(TFMS-Eu) | 52093-25-1 | -- |
| 610 | | Erbium(III) trifluoromethanesulfonate(TFMS-Er) | 139177-64-3 | -- |
| 611 | | Gallium(III) trifluoromethanesulfonate(TFMS-Ga) | 74974-60-0 | -- |
| 612 | | N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate | 380230-73-9 | -- |
| 613 | | Methanesulfonic acid, trifluoro-, calcium salt(TFMS-Ca) | 55120-75-7 | -- |
| 614 | | Thallium(1+) trifluoromethanesulfonate(TFMS-Tl) | 73491-36-8 | -- |
| 615 | | Hafnium(IV) Trifluoromethanesulfonate(TFMS-Hf) | 161337-67-3 | -- |
| 616 | | 1-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Pentadecafluorooctyl)pyridinium trifluoromethanesulfonate | 25061-59-0 | -- |
| 617 | | Tetrapropylammonium trifluoromethanesulphonate (TFMS- $N(C_3H_7)_4$) | 35925-48-5 | -- |
| 618 | | (Heptafluoropropyl)(phenyl)iodanium trifluoromethanesulfonate | 77758-79-3 | -- |
| 619 | | Phenyl(tridecafluorohexyl)iodanium trifluoromethanesulfonate | 77758-84-0 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 620 | | (Heptadecafluorooctyl)(phenyl)iodanium trifluoromethanesulfonate | 77758-89-5 | -- |
| 621 | | (1,1,1,2,3,3,3-Heptafluoropropan-2-yl)(phenyl)iodanium trifluoromethanesulfonate | 82959-18-0 | -- |
| 622 | | Triethylmethylammonium triflate | 90756-35-7 | -- |
| 623 | | Pentafluoroanilinium trifluoromethanesulfonate | 912823-79-1 | -- |
| 624 | | Tributylmethylammonium trifluoromethanesulfonate | 944557-37-3 | -- |
| 625 | PFPrS, its salts | Perfluoropropanesulfonic acid (PFPrS) | 423-41-6 | 0.010 |
| 626 | | Perfluoropropanesulfonic acid sodium salt (PFPrS-Na) | 359868-82-9 | -- |
| 627 | -- | 1-perfluoroheptyl ethanol (7:2 secondary) (7:2sFTOH) | 24015-83-6 | 0.200 |
| 628 | -- | 4:2 Fluorotelomer iodide (4:2 FTI) | 2043-55-2 | 0.200 |
| 629 | PFHpSi, its salts | Perfluoroheptane-1-sulfinic acid (PFHpSi) | 769067-51-8 | 0.010 |
| 630 | | 1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na) | 68555-66-8 | -- |
| 631 | PFOPA, its salts | Perfluorooctyl phosphoric acid (PFOPA) | 40143-78-0 | 0.010 |
| 632 | | (Heptadecafluorooctyl)phosphonic acid-4-methylaniline (1/1) | 1263361-03-0 | -- |
| 633 | -- | 1H,1H-Perfluorooctylamine (7:1 $FTNH_2$) | 307-29-9 | 0.200 |
| 634 | -- | Perfluoroheptanamide ($PFHpA-NH_2$) | 2358-22-7 | 0.100 |
| 635 | -- | Perfluorobutyramide ($PFBA-NH_2$) | 662-50-0 | 0.200 |
| 636 | -- | 1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA) | 52591-27-2 | 0.200 |
| 637 | -- | N-methylperfluoro-1-butanesulfonamide (MeFBSA) | 68298-12-4 | 0.010 |
| 638 | -- | N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE) | 34455-03-3 | 0.010 |
| 639 | TFA, its salts | Trifluoroacetic acid (TFA) | 76-05-1 | 1.000 |
| 640 | | Sodium trifluoroacetate (TFA-Na) | 2923-18-4 | -- |
| 641 | | Thallium(III) trifluoroacetate (TFA-Tl) | 23586-53-0 | -- |
| 642 | | Lithium Trifluoroacetate (TFA-Li) | 2923-17-3 | -- |
| 643 | | Silver trifluoroacetate (TFA-Ag) | 2966-50-9 | -- |
| 644 | | Cesium Trifluoroacetate (TFA-Cs) | 21907-50-6 | -- |
| 645 | | Potassium trifluoroacetate (TFA-K) | 2923-16-2 | -- |
| 646 | | Ammoniumtrifluoroacetate ($TFA-NH_4$) | 3336-58-1 | -- |
| 647 | | Mercury(II) trifluoroacetate (TFA-Hg) | 13257-51-7 | -- |
| 648 | | Palladium(II) trifluoroacetate (TFA-Pd) | 42196-31-6 | -- |
| 649 | | Trifluoroacetate / Trifluoroacetic acid anion(TFA anion) | 14477-72-6 | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 650 | | Dimethyl[(trifluoroacetyl)oxy]sulfanium trifluoroacetate | 57738-66-6 | -- |
| 651 | | Aluminium tris(trifluoroacetate)(TFA-Al) | 36554-89-9 | -- |
| 652 | | Barium bis(trifluoroacetate)(TFA-Ba) | 60884-92-6 | -- |
| 653 | | Erbium tris(trifluoroacetate)(TFA-Er) | 70236-99-6 | -- |
| 654 | | Indium trifluoroacetate(TFA-In) | 36554-90-2 | -- |
| 655 | | Lanthanum tris(trifluoroacetate)(TFA-La) | 70236-92-9 | -- |
| 656 | | Nickel(2+) trifluoroacetate(TFA-Ni) | 16083-14-0 | -- |
| 657 | | Lead(II) trifluoroacetate(TFA-Pb) | 4146-73-0 | -- |
| 658 | | Acetic acid, trifluoro-, rhodium(2+) salt(TFA-Rh) | 72654-51-4 | -- |
| 659 | | Thulium tris(trifluoroacetate)(TFA-Tm) | 70237-00-2 | -- |
| 660 | | Ytterbium(3+) tris(trifluoroacetate)(TFA-Yb) | 87863-62-5 | -- |
| 661 | | Zinc bis(trifluoroacetate)(TFA-Zn) | 21907-47-1 | -- |
| 662 | | Ruthenium(II) 2,2,2-trifluoroacetate(TFA-Ru) | 61612-84-8 | -- |
| 663 | | Magnesium 2,2,2-trifluoroacetate(TFA-Mg) | 123333-72-2 | -- |
| 664 | | Copper(2+) trifluoroacetate(TFA-Cu) | 123333-88-0 | -- |
| 665 | | Methyltrioctylammonium trifluoroacetate | 121107-16-2 | -- |
| 666 | | Chromium(3+) tris(trifluoroacetate)(TFA-Cr) | 16712-29-1 | -- |
| 667 | | Tetraethylammonium trifluoroacetate(TFA-$N(C_2H_5)_4$) | 30093-29-9 | -- |
| 668 | | Tetrabutylammonium trifluoroacetate(TFA-$N(C_4H_9)_4$) | 39481-22-6 | -- |
| 669 | | Europium(3+) trifluoroacetate-water (1/3/3)(TFA-$Eu.H_2O$) | 94079-71-7 | -- |
| 670 | BETI, its salts | Bis(pentafluoroethylsulfonyl)imide | 152894-10-5 | 0.020 |
| 671 | | Lithium Bis(pentafluoroethanesulfonyl)imide | 132843-44-8 | -- |
| 672 | | Bis(perfluoroethylsulfonyl)imide anion | 129318-46-3 | -- |
| 673 | | Sodium bis((perfluoroethyl)sulfonyl)amide | 152894-04-7 | -- |
| 674 | | Potassium bis((perfluoroethyl)sulfonyl)amide | 221203-22-1 | -- |
| 675 | | 1-Ethyl-3-methylimidazolium bis(perfluoroethylsulfonyl)imide | 216299-76-2 | -- |
| 676 | -- | Perfluoro-2-ethoxypropanoic acid(PEPA) | 267239-61-2 | 0.010 |
| 677 | PFDPA, its salts | Perfluorodecylphosphonic acid (PFDPA) | 52299-26-0 | 0.010 |
| 678 | | Perfluorodecylphosphonic Acid 4-Methylbenzamine | -- | -- |
| 679 | | Perfluorodecylphosphonic Acid Di-4-toluidine Salt | -- | -- |
| 680 | PFHxPA, its salts | Perfluorohexyl phosphonic acid | 40143-76-8 | 0.010 |
| 681 | | Perfluorohexylphosphonic Acid 4-Methylbenzamine | 1263361-02-9 | -- |
| 682 | -- | ((Perfluorooctyl)ethyl)phosphonic acid | 80220-63-9 | 0.020 |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| 683 | -- | 3-(Perfluorobutyl)propanoic acid | 80705-13-1 | 0.010 |
| 684 | -- | Perfluoro-3,6,9-trioxaundecane-1,11-dioic acid | 55621-18-6 | 0.020 |
| 685 | -- | Perfluorononanedioic acid | 23453-64-7 | 0.020 |
| 686 | -- | Perfluorooctanedioic acid | 678-45-5 | 0.020 |
| 687 | -- | Perfluamine | 338-83-0 | 10.000 |
| 688 | HFAC, its salts | Hexafluoroacetylacetone (HFAC) | 1522-22-1 | 0.010 |
| 689 | | Strontium hexafluoroacetylacetonate (HFAC-Sr) | 121012-89-3 | -- |
| 690 | | Calcium hexafluoroacetylacetonate (HFAC-Ca) | 121012-90-6 | -- |
| 691 | | Bismuth(III) hexafluoroacetylacetonate (HFAC-Bi) | 141364-06-9 | -- |
| 692 | | Nickel(2+) bis(1,1,1,5,5,5-hexafluoro-2,4-dioxopentan-3-ide) (HFAC-Ni) | 14949-69-0 | -- |
| 693 | | Copper(II) hexafluoroacetylacetonate hydrate (HFAC- $Cu{\cdot}H_2O$) | 155640-85-0 | -- |
| 694 | | Thorium hexafluoroacetylacetonate (HFAC-Th) | 18865-75-3 | -- |
| 695 | | Yttrium hexafluoroacetylacetonate (HFAC-Y) | 18911-76-7 | -- |
| 696 | | Erbium(III) hexafluoroacetylacetonate hydrate (HFAC- $Er{\cdot}H_2O$) | 18923-92-7 | -- |
| 697 | | Scandium(III) hexafluoroacetylacetonate (HFAC-Sc) | 18990-42-6 | -- |
| 698 | | Cobalt(2+) bis[(2Z)-1,1,1,5,5,5-hexafluoro-4-oxo-2-penten- 2-olate] (HFAC-Co) | 19648-83-0 | -- |
| 699 | | Magnesium bis(1,1,1,5,5,5-hexafluoro-4-oxo-2-penten-2- olate) (HFAC-Mg) | 19648-85-2 | -- |
| 700 | | Manganese(2+) bis[(2Z)-1,1,1,5,5,5-hexafluoro-4-oxo-2- penten-2-olate] (HFAC-Mn) | 19648-86-3 | -- |
| 701 | | Sodium hexafluoroacetylacetonate (HFAC-Na) | 22466-49-5 | -- |
| 702 | | Caesium (2Z)-1,1,1,5,5,5-hexafluoro-4-oxo-2-penten-2- olate (HFAC-Cs) | 22518-56-5 | -- |
| 703 | | Barium hexafluoroacetylacetonate (HFAC-Ba) | 314071-48-2 | -- |
| 704 | | Indium hexafluoropentanedionate (HFAC-In) | 34110-72-0 | -- |
| 705 | | Tin(II) hexafluoroacetylacetonate (HFAC-Sn) | 51319-99-4 | -- |
| 706 | | Palladium(II) hexafluoroacetylacetonate (HFAC-Pd) | 64916-48-9 | -- |
| 707 | -- | Perfluoro-N-methylmorpholine | 382-28-5 | 10.000 |
| 708 | -- | 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (BPAF) | -- | 10.000 |
| 709 | PFTriODA, its salts | Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (PFTriODA) | 65294-16-8 | 0.010 |
| 710 | | Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid potassium salt | 67963-77-3 | -- |
| 711 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[1,1,2,3,3,3-hexafluoro-2- | -- | -- |

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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|---|---|---|---|---|
| | | (1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]propoxy]-, ammonium salt (1:1) | | |
| 712 | PFDeDA, its salts | Perfluorodecanedioic acid (PFDeDA) | 307-78-8 | 0.010 |
| 713 | | Disodium;2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorodecanedioate | -- | -- |
| 714 | | Dilithium;2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorodecanedioate | -- | -- |
| 715 | 9H-PFNA, its salts | 9H-Perfluorononanoic acid (9H-PFNA) | 76-21-1 | 0.100 |
| 716 | | Sodium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate | -- | -- |
| 717 | | Sodium 9-chloro-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate | -- | -- |
| 718 | | potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate | -- | -- |
| 719 | | Potassium 9-chloroperfluorononanoate | 1415963-94-8 | -- |
| 720 | | Ammonium hexadecafluorononanoate | 1868-86-6 | -- |
| 721 | | Lithium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate | -- | -- |
| 722 | | Lithium 9-chloro-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate | -- | -- |
| 723 | HFPDSI, its salts | 1,1,2,2,3,3-Hexafluoropropane-1,3-disulfonimide (HFPDSI) | 84246-29-7 | 0.010 |
| 724 | | Potassium 1,1,2,2,3,3-Hexafluoropropane-1,3-disulfonimide (HFPDSI-K) | 588668-97-7 | -- |
| 725 | | Lithium 1,1,2,2,3,3-Hexafluoropropane-1,3-disulfonimide (HFPDSI-Li) | 189217-62-7 | -- |

(2) For textile, list of PFAS hydrolysed ^^ when extracted by methanol/sodium hydroxide solution in below table:

| Substances Name | CAS No. |
|---|---|
| **N-EtFOSE, its possible source** | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | 1691-99-2 |
| 2-(N-ethylperfluorooctanesulfamido)ethyl acrylate (EtFOSAC) ^^ | 423-82-5 |
| **PFOA, its possible source** | |
| Perfluorooctanoic Acid (PFOA) | 335-67-1 |
| Ethyl perfluorooctanoate (Et-PFOA) ^^ | 3108-24-5 |
| Methyl perfluorooctanoate (Me-PFOA) ^^ | 376-27-2 |
| **8:2 FTOH, its possible source** | |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) | 678-39-7 |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^^ | 1996-88-9 |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^^ | 27905-45-9 |

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| | |
|---|---|
| 1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) ^^ | 37858-04-1 |
| **10:2 FTOH, its possible source** | |
| 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) | 865-86-1 |
| 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) ^^ | 2144-54-9 |
| 1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) ^^ | 17741-60-5 |
| 1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc) ^^ | 37858-05-2 |
| **6:2 FTOH, its possible source** | |
| 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) | 647-42-7 |
| 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) ^^ | 2144-53-8 |
| 1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) ^^ | 17527-29-6 |
| **MeFHxSE, its possible source** | |
| 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 |
| 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 |
| 2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA) ^^ | 67584-57-0 |
| **Et-FHxSE, its possible source** | |
| N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE) | 34455-03-3 |
| 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 |
| **PFHpA, its possible source** | |
| Perfluoroheptane Acid (PFHpA) | 375-85-9 |
| Perfluoroheptanamide (PFHpA-$NH_2$) ^^ | 2358-22-7 |
| **PFBA, its possible source** | |
| Perfluorobutane Acid (PFBA) | 375-22-4 |
| Perfluorobutyramide (PFBA-$NH_2$) ^^ | 662-50-0 |
| **4:2 FTOH, its possible source** | |
| 1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) | 2043-47-2 |
| 1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA) ^^ | 1799-84-4 |
| 1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA) ^^ | 52591-27-2 |

(3) Compound is hydrolysed and releases related PFAS substances when extracted by methanol/sodium hydroxide solution. Since the listed PFAS will be degraded to unknown compounds and/or cannot be analysed by extraction with methanol/NaOH solution, only extractable content can be detected and quantified with solvent extraction methods .The results received by solvent extraction with subsequent GC-MS or GC-MS/MS or HPLC-MS/MS analysis reflect only extractable PFAS.

(4) Results of PFPeDA, PFHpDA, PFNDA, $C_{20}$ PFCA, $C_{21}$ PFCA were semi-quantified using a

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perfluoroalkanoic acid whose carbon-chain length is close to that of the analyte.

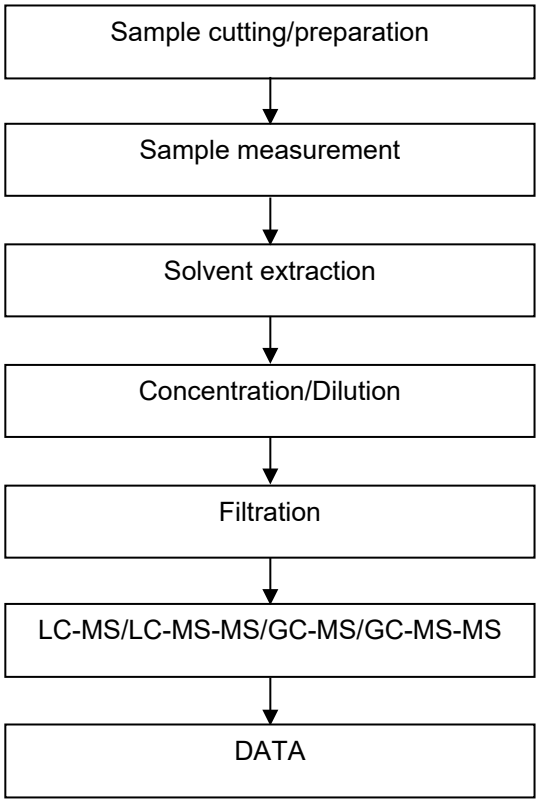
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## ATTACHMENTS

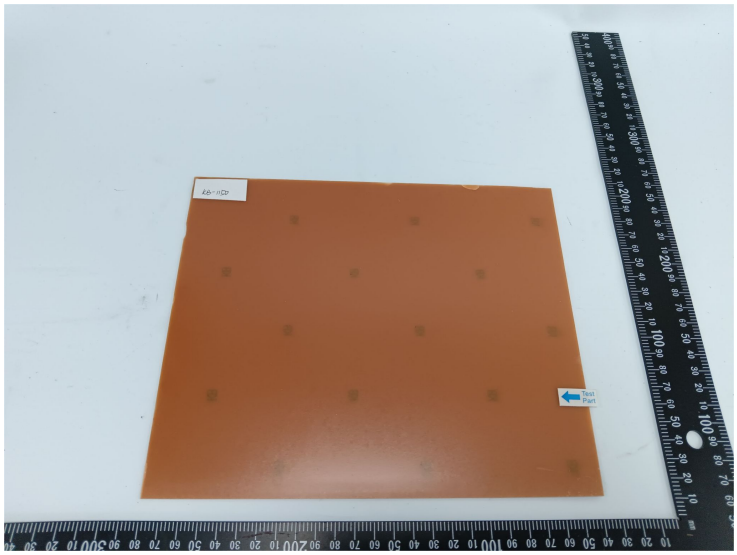
### PFASs/ PFOS/PFOA Testing Flow Chart




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**Sample photos:**



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