## Guidance for Reporting Per- and Poly-Fluoroalkyl Substances (PFAS) under the Toxics Use Reduction Act (TURA), including Individually Listed PFAS and the Certain PFAS Not Otherwise Listed (NOL) Category

Per- and Poly-Fluoroalkyl Substances (PFAS) are a very large group of chemicals, currently totaling over 10,000, with continually evolving regulatory requirements. Continuing updates to the Toxics Release Inventory (TRI) under the 2020 National Defense Authorization Act (NDAA) affect TURA reporting requirements. Some PFAS are reportable individually and some are reportable under either the TURA C1 - C4 Halogenated Hydrocarbons NOL category or the TURA Certain PFAS NOL category or both:

PFAS are reportable individually under TURA when (a) they are individually listed under TRI (Table 1) and (b) if they were already reportable under TURA (Table 2).

PFAS are reportable as part of a category as part of (a) the C1-C4 NOL category (Table 3), and (b) the new Certain PFAS NOL category (Table 4).

For the 2021 Reporting Year, 172 Individual PFAS were added to the TURA list, after being added to TRI. These individually added PFAS have a reporting threshold of 100 lb. each and are listed in [Table 1](#Table1) below. **Note that EPA is CONTINUALLY ADDING to this list, including fifteen already identified PFAS, listed toward the end of** [**Table 4**](#Table4)**, in gray**. The first nine PFAS in gray at the end of Table 4 have been added to TURA individually for reporting year **2024**. The remaining six PFAS in gray are awaiting Administrative Council vote. **Report all fifteen as part of the TURA Certain PFAS NOL category for reporting year 2023.**

For the 2022 Reporting Year, the Certain PFAS NOL category was added under TURA. The Certain PFAS NOL category is defined as those PFAS that contain:

* a perfluoroalkyl moiety[[1]](#footnote-1) with three or more carbons (e.g., –CnF2n– , n ≥ 3; or CF3–CnF2n– , n ≥ 2)
* a perfluoroalkylether moiety with two or more carbons (e.g., –CnF2nOCmF2m− or –CnF2nOCmFm–, n and m ≥ 1)

wherein for the example structures shown, the dash (–) is not a bond to a hydrogen and may represent a straight or branched structure, and that are not otherwise listed.

Reporting of this Certain PFAS NOL category is at typical TURA thresholds of 25,000 pounds manufactured or processed and 10,000 pounds otherwise used annually. There is a large group of PFAS that meet this definition.

All chemicals meeting the above Certain PFAS NOL definition are reportable as part of the category unless they are individually listed under TURA. The lists of PFAS with CAS registry numbers in this guidance are provided to assist filers, but are not exhaustive.

[Table 1](#Table1) below lists PFAS that are individually reportable under TURA at the 100 lb threshold, after TURA adopted the TRI NDAA listings. Note the de minimis was removed for these in reporting year 2024.

[Table 2](#Table2) below lists PFAS that were already individually reportable under TURA. Continue to report them at typical reporting thresholds.

[Table 3](#Table3) lists PFAS that are reportable under the TURA C1-C4 Halogenated Hydrocarbons category. The substances shaded in gray at the bottom are **ALSO** reportable under the new Certain PFAS NOL TURA category. Report **BOTH** C1-C4 Halogenated Hydrocarbons **AND** Certain PFAS NOL for the substances in gray. Only one fee will be due.

[Table 4](#Table4) lists PFAS that are reportable under the Certain PFAS NOL category only. Substances in gray have recently been added by TRI at a 100 lb/year threshold. TURA has adopted these changes for reporting year 2023. Report under TURA as part of Certain PFAS NOL for reporting year 2022.

The lists in Tables 2-4 were generated from PFAS that are known to be in commerce, primarily from the Toxic Substances Control Act (TSCA). Thus, these lists are **NOT** exhaustive. Approximately 1/3 of the PFAS in commerce, as noted by the TSCA Chemical Data Reporting (CDR), are claimed as Confidential Business Information (CBI) and thus will require the supplier to disclose whether the substance meets the definition.

PFAS are often on SDSs without CAS numbers or a full chemical name (i.e., they may be identified as ‘fluoropolymer’ or some more general language). For that reason, it is important to contact suppliers to find out whether PFAS are in the products used. OTA has developed [a supplier notification letter template](https://www.mass.gov/news/pfas-tracking-and-reporting-updates) for this purpose.

Note that some PFAS are in products at concentrations below the de minimis[[2]](#footnote-2) exemption amount (1% for most PFAS, 0.1% for PFOA as a carcinogen). EPA removed the de minimis in reporting year 2024 for PFAS that are individually listed on TRI ( Table 1). These quantities do not need to be counted for the remaining PFAS ( Tables 2,3 and 4) when determining if the reporting threshold has been met.

For fluorinated substances where a chemical structure is not available it should be assumed to be part of the category until more specific information is available.

Normal article exemptions[[3]](#footnote-3) apply for PFAS. For example, PTFE pellets being processed, such as in extrusion processes, would be reportable, as would PTFE coating emulsions. Teflon articles, such as Teflon tape or spacers, would likely meet the article exemption.

| **Table 1**  **TURA/TRI PFAS Substances to Continue Reporting Individually, if more than 100 lbs/year used** | |
| --- | --- |
| 307-35-7 | Perfluorooctylsulfonyl fluoride |
| 307-55-1 | Perfluorododecanoic acid |
| 335-66-0 | Octanoyl fluoride, pentadecafluoro- |
| 335-67-1 | Perfluorooctanoic acid (*carcinogen de minimis = 0.1%)* |
| 335-71-7 | 1-Heptanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro- |
| 335-76-2 | Perfluorodecanoic acid |
| 335-93-3 | Silver(I) perfluorooctanoate (reportable under TRI as of 1/1/21) |
| 335-95-5 | Sodium perfluorooctanoate |
| 355-46-4 | Perfluorohexanesulfonic acid |
| 375-73-5 | Perfluorobutane sulfonic acid (PFBS) (reportable under TRI as of 1/1/22) |
| 375-95-1 | Perfluorononanoic acid |
| 376-06-7 | Perfluorotetradecanoic acid |
| 376-14-7 | 2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl methacrylate |
| 376-27-2 | Methyl perfluorooctanoate |
| 383-07-3 | 2-[Butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate |
| 423-82-5 | 2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate |
| 507-63-1 | Perfluorooctyl iodide (reportable under TRI as of 1/1/21) |
| 678-39-7 | 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- |
| 865-86-1 | 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro- |
| 1652-63-7 | 3-[[(Heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-1-propanaminium iodide |
| 1691-99-2 | N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide |
| 1763-23-1 | Perfluorooctane sulfonic acid |
| 1996-88-9 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester |
| 2043-53-0 | Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo- |
| 2043-54-1 | Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafluoro-12-iodo- |
| 2144-54-9 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester |
| 2263-09-4 | 1-Octanesulfonamide, N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)- |
| 2795-39-3 | Potassium perfluorooctanesulfonate |
| 2395-00-8 | Potassium perfluorooctanoate (reportable under TRI as of 1/1/21) |
| 2991-51-7 | Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt |
| 3107-18-4 | Cyclohexanesulfonic acid, undecafluoro-, potassium salt |
| 3825-26-1 | Ammonium perfluorooctanoate |
| 3871-99-6 | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt |
| 3872-25-1 | 1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, potassium salt |
| 4151-50-2 | Sulfluramid |
| 4980-53-4 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluorohexadecyl ester |
| 6014-75-1 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl ester |
| 13252-13-6 | Hexafluoropropylene oxide dimer acid |
| 16517-11-6 | Octadecanoic acid, pentatriacontafluoro- |
| 17202-41-4 | 1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluoro-, ammonium salt |
| 17741-60-5 | 1,1,2,2-Tetrahydroperfluorododecyl acrylate |
| 21652-58-4 | Perfluorooctyl Ethylene |
| 24448-09-7 | 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl- |
| 25268-77-3 | 2-[[(Heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate |
| 27619-90-5 | 1-Decanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- |
| 27619-91-6 | 1-Dodecanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro- |
| 27905-45-9 | 1,1,2,2-Tetrahydroperfluorodecyl acrylate |
| 29081-56-9 | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt |
| 29117-08-6 | Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 29420-49-3 | Potassium perfluorobutane sulfonate (reportable under TRI as of 1/1/22) |
| 29457-72-5 | Lithium (perfluorooctane)sulfonate |
| 30046-31-2 | Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafluoro-14-iodo- |
| 31506-32-8 | 1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl- |
| 34362-49-7 | 1,1,2,2-Tetrahydroperfluorohexadecyl acrylate |
| 34395-24-9 | 1,1,2,2-Tetrahydroperfluorotetradecyl acrylate |
| 37338-48-0 | Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 38006-74-5 | 1-Propanaminium, 3-[[(heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-, chloride |
| 39239-77-5 | 1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluoro- |
| 52166-82-2 | 1-Propanaminium, N,N,N-trimethyl-3-[[(tridecafluorohexyl)sulfonyl]amino]-, chloride |
| 55910-10-6 | Glycine, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl-, potassium salt |
| 56372-23-7 | Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 56773-42-3 | Ethanaminium, N,N,N-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1) |
| 59071-10-2 | 2-Propenoic acid, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester |
| 60270-55-5 | 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, potassium salt |
| 60699-51-6 | 1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluoro- |
| 61660-12-6 | 1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]- |
| 61798-68-3 | Pyridinium, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-, salt with 4-methylbenzenesulfonic acid (1:1) |
| 62037-80-3 | Hexafluoropropylene oxide dimer acid ammonium salt |
| 65104-45-2 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate (reportable under TRI as of 1/1/21) |
| 65104-65-6 | 1-Eicosanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,20-heptatriacontafluoro- |
| 65104-67-8 | 1-Octadecanol, 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-tritriacontafluoro- |
| 65510-55-6 | Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafluoro-16-iodo- |
| 65530-59-8 | Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, 2-hydroxy-1,2,3-propanetricarboxylate (3:1) |
| 65530-61-2 | Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]- |
| 65530-62-3 | Poly(difluoromethylene), α,α'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω-fluoro- |
| 65530-63-4 | Ethanol, 2,2'-iminobis-, compd. with α-fluoro-ω-[2-(phosphonooxy)ethyl]poly(difluoromethylene) (2:1) |
| 65530-64-5 | Ethanol, 2,2'-iminobis-, compd. with α,α'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω-fluoropoly(difluoromethylene)] (1:1) |
| 65530-65-6 | Poly(difluoromethylene), α-fluoro-ω-[2-[(1-oxooctadecyl)oxy]ethyl]- |
| 65530-66-7 | Poly(difluoromethylene), α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]- |
| 65530-69-0 | Poly(difluoromethylene), α-[2-[(2-carboxyethyl)thio]ethyl]-ω-fluoro-, lithium salt |
| 65530-70-3 | Poly(difluoromethylene), α,α'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω-fluoro-, ammonium salt |
| 65530-71-4 | Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-, monoammonium salt |
| 65530-72-5 | Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-, diammonium salt |
| 65530-74-7 | Ethanol, 2,2'-iminobis-, compd. with α-fluoro-ω-[2-(phosphonooxy)ethyl]poly(difluoromethylene) (1:1) |
| 65530-83-8 | Poly(difluoromethylene), α-[2-[(2-carboxyethyl)thio]ethyl]-ω-fluoro- |
| 65545-80-4 | Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, ether with α-fluoro-ω-(2-hydroxyethyl)poly(difluoromethylene) (1:1) |
| 65605-56-3 | Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate |
| 65605-57-4 | Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, hydrogen 2-hydroxy-1,2,3-propanetricarboxylate |
| 65605-58-5 | 2-Propenoic acid, esters, 2-methyl-, dodecyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene) |
| 65605-59-6 | 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene) and N-(hydroxymethyl)-2-propenamide |
| 65605-73-4 | Poly(difluoromethylene), α-fluoro-ω-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, homopolymer |
| 65636-35-3 | Ethanaminium, N,N-diethyl-N-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-ethylhexyl 2-methyl-2-propenoate, α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide |
| 67584-42-3 | Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt |
| 67584-52-5 | Glycine, N-ethyl-N-[(undecafluoropentyl)sulfonyl]-, potassium salt |
| 67584-53-6 | Glycine, N-ethyl-N-[(tridecafluorohexyl)sulfonyl]-, potassium salt |
| 67584-56-9 | 2-Propenoic acid, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl ester |
| 67584-57-0 | 2-Propenoic acid, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl ester |
| 67584-58-1 | 1-Propanaminium, N,N,N-trimethyl-3-[[(pentadecafluoroheptyl)sulfonyl]amino]-, iodide |
| 67584-62-7 | Glycine, N-ethyl-N-[(pentadecafluoroheptyl)sulfonyl]-, potassium salt |
| 67905-19-5 | Perfluoropalmitic acid |
| 67906-42-7 | 1-Decanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafluoro-, ammonium salt |
| 67969-69-1 | 1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonooxy)ethyl]-, diammonium salt |
| 68084-62-8 | 2-Propenoic acid, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester |
| 68140-18-1 | Thiols, C4-10, γ-ω-perfluoro |
| 68140-20-5 | Thiols, C6-12, γ-ω-perfluoro |
| 68140-21-6 | Thiols, C10-20, γ-ω-perfluoro |
| 68141-02-6 | Chromium(III) perfluorooctanoate |
| 68156-01-4 | Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt |
| 68156-07-0 | Cyclohexanesulfonic acid, decafluoro(trifluoromethyl)-, potassium salt |
| 68187-25-7 | Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs. |
| 68187-47-3 | 1-Propanesulfonic acid, 2-methyl-, 2-[[1-oxo-3-[(γ-ω-perfluoro-C4-16-alkyl)thio]propyl]amino] derivs., sodium salts |
| 68188-12-5 | Alkyl iodides, C4-20, γ-ω-perfluoro |
| 68227-96-3 | 2-Propenoic acid, butyl ester, telomer with 2-[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,4-butanediyl), α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,4-butanediyl), 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol |
| 68239-43-0 | 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide |
| 68259-07-4 | 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, ammonium salt |
| 68259-08-5 | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt |
| 68259-09-6 | 1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, ammonium salt |
| 68259-38-1 | Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 68259-39-2 | Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 68298-62-4 | 2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[butyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, methyloxirane polymer with oxirane di-2-propenoate, methyloxirane polymer with oxirane mono-2-propenoate and 1-octanethiol |
| 68298-80-6 | Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 68298-81-7 | Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 68310-17-8 | Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 68391-08-2 | Alcohols, C8-14, γ-ω-perfluoro |
| 68412-68-0 | Phosphonic acid, perfluoro-C6-12-alkyl derivs. |
| 68412-69-1 | Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs. |
| 68515-62-8 | 1,4-Benzenedicarboxylic acid, dimethyl ester, reaction products with bis(2-hydroxyethyl)terephthalate, ethylene glycol, α-fluoro-ω-(2-hydroxyethyl)poly(difluoromethylene), hexakis(methoxymethyl)melamine and polyethylene glycol |
| 68555-74-8 | 1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl- |
| 68555-75-9 | 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl- |
| 68555-76-0 | 1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methyl- |
| 68555-81-7 | 1-Propanaminium, N,N,N-trimethyl-3-[[(pentadecafluoroheptyl)sulfonyl]amino]-, chloride |
| 68555-91-9 | 2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate |
| 68758-57-6 | 1-Tetradecanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluoro- |
| 68867-60-7 | 2-Propenoic acid, 2-[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and α-(1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl) |
| 68957-55-1 | 1-Propanaminium, N,N,N-trimethyl-3-[[(undecafluoropentyl)sulfonyl]amino]-, chloride |
| 68957-57-3 | 1-Propanaminium, N,N,N-trimethyl-3-[[(undecafluoropentyl)sulfonyl]amino]-, iodide |
| 68957-58-4 | 1-Propanaminium, N,N,N-trimethyl-3-[[(tridecafluorohexyl)sulfonyl]amino]-, iodide |
| 68957-62-0 | 1-Heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro- |
| 68958-60-1 | Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-ω-methoxy- |
| 68958-61-2 | Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-ω-methoxy- |
| 70225-14-8 | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1) |
| 70225-15-9 | 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) |
| 70225-16-0 | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1) |
| 70225-17-1 | 1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1) |
| 70969-47-0 | Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide |
| 70983-59-4 | Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-, 2-hydroxy-3-[(γ-ω-perfluoro-C6-20-alkyl)thio]propyl ethers |
| 70983-60-7 | 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs., chlorides |
| 71608-60-1 | Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs. |
| 72623-77-9 | Fatty acids, C6-18, perfluoro, ammonium salts |
| 72968-38-8 | Fatty acids, C7-13, perfluoro, ammonium salts |
| 74499-44-8 | Phosphoric acid, γ-ω-perfluoro-C8-16-alkyl esters, compds. with diethanolamine |
| 78560-44-8 | Silane, trichloro(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)- |
| 80010-37-3 | Poly(difluoromethylene), α-fluoro-ω-[2-sulphoethyl)- |
| 83048-65-1 | Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- |
| 95144-12-0 | Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-, ammonium salt |
| 97553-95-2 | Thiocyanic acid, γ-ω-perfluoro-C4-20-alkyl esters |
| 97659-47-7 | Alkenes, C8-14 α-, δ-ω-perfluoro |
| 118400-71-8 | Disulfides, bis(γ-ω-perfluoro-C6-20-alkyl) |
| 123171-68-6 | Poly(difluoromethylene), α-[2-(acetyloxy)-3-[(carboxymethyl)dimethylammonio]propyl]-ω-fluoro-, inner salt |
| 125476-71-3 | Silicic acid (H4SiO4), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol |
| 135228-60-3 | Hexane, 1,6-diisocyanato-, homopolymer, γ-ω-perfluoro-C6-20-alc.-blocked |
| 142636-88-2 | 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate |
| 143372-54-7 | Siloxanes and Silicones, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy Me, hydroxy Me, Me octyl, ethers with polyethylene glycol mono-Me ether |
| 148240-85-1 | 1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates, ammonium salts |
| 148240-87-3 | 1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs., phosphates, ammonium salts |
| 148240-89-5 | 1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts |
| 150135-57-2 | 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Bu acrylate, γ-ω-perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate, 2,2'-azobis[2,4-dimethylpentanenitrile]-initiated |
| 178094-69-4 | 1-Octanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt |
| 178535-23-4 | Fatty acids, linseed-oil, γ-ω-perfluoro-C8-14-alkyl esters |
| 180582-79-0 | Sulfonic acids, C6-12-alkane, γ-ω-perfluoro, ammonium salts |
| 182176-52-9 | Ethaneperoxoic acid, reaction products with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl thiocyanate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl thiocyanate |
| 196316-34-4 | 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with γ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate, acetates |
| 200513-42-4 | 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate |
| 203743-03-7 | 2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, .gamma.-.omega.-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate (reportable under TRI as of 1/1/22) |
| 238420-68-3 | Propanedioic acid, mono(γ-ω-perfluoro-C8-12-alkyl) derivs., di-me esters |
| 238420-80-9 | Propanedioic acid, mono(γ-ω-perfluoro-C8-12-alkyl) derivs., bis[4-(ethenyloxy)butyl] esters |
| 45187-15-3 | Perfluorobutanesolfonate (reportable under TRI as of 1/1/22) |
| 1078142-10-5 | 1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C6-12-alkyl)thio]methyl] derivs., polymers with 2,2-bis[[(γ-ω-perfluoro-C10-20-alkyl)thio]methyl]-1,3-propanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2'-(methylimino)bis[ethanol] |
| 1078712-88-5 | Thiols, C4-20, γ-ω-perfluoro, telomers with acrylamide and acrylic acid, sodium salts |
| 1078715-61-3 | 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-[2-[(γ-ω-perfluoro-C4-20-alkyl)thio]acetyl] derivs., inner salts |

The following PFAS in Table 2 were already individually reportable under TURA. Continue to report them at typical TURA reporting thresholds.

|  |  |
| --- | --- |
| **Table 2.**  **PFAS Substances to continue reporting individually when exceeding normal reporting thresholds** | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane |
| 76-15-3 | Chloropentafluoroethane |
| 116-14-3 | Tetrafluoroethylene |
| 124-73-2 | 1,2-Dibromotetrafluoroethane |
| 354-25-6 | 1-chloro-1,1,2,2-tetrafluoroethane |
| 422-56-0 | 3,3-Dichloro-1,1,1,2,2-pentafluoropropane |
| 507-55-1 | 1,3-Dichloro-1,1,2,2,3-pentafluoropropane |
| 2837-89-0 | 2-Chloro-1,1,1,2-tetrafluoroethane |

The following PFAS are reportable under the TURA C1-C4 Halogenated Hydrocarbons category. The substances shaded in gray at the bottom are **ALSO** reportable under the new Certain PFAS NOL TURA category. Report the chemicals in gray as **BOTH** C1-C4 Halogenated Hydrocarbons **AND** as Certain PFAS NOL for the substances in gray. Only one fee will be due.

| **Table 3.**  **PFAS Substances reportable under the TURA C1-C4 Halogenated Hydrocarbons category** | |
| --- | --- |
| *76-16-4* | *Pentafluoroethane* |
| *76-17-5* | *1,2,3-Trichloropentafluoropropane* |
| *116-15-4* | *Hexafluoropropene* |
| *335-44-4* | *2,2,3-Trichloroheptafluorobutane* |
| *354-33-6* | *Pentafluoroethane* |
| *354-64-3* | *pentafluoroiodoethane* |
| *359-35-3* | *1,1,2,2-Tetrafluoroethane* |
| *360-89-4* | *Perfluorobut-2-ene* |
| *374-07-2* | *1,1-Dichlorotetrafluoroethane* |
| *382-10-5* | *1,1-Bis(trifluoromethyl)ethene* |
| *421-73-8* | *1,1,1,2-Tetrafluoro-2-chloropropane* |
| *431-31-2* | *1,1,1,2,3-Pentafluoropropane* |
| *431-63-0* | *1,1,1,2,3,3-Hexafluoropropane* |
| *431-89-0* | *2H-Perfluoropropane* |
| *677-69-0* | *Heptafluoro-2-iodopropane* |
| *690-39-1* | *1,1,1,3,3,3-Hexafluoropropane* |
| *754-12-1* | *2,3,3,3-Tetrafluoropropene* |
| *811-97-2* | *1,1,1,2-Tetrafluoroethane* |
| *1320-37-2* | *Dichlorotetrafluoroethane* |
| *2252-83-7* | *1,2,3,3,3-Pentafluoropropene* |
| *18599-20-7* | *1,4-Dibromo-1,1,2,2-tetrafluorobutane* |
| *18599-22-9* | *2-Vinyl(1-bromoperfluoroethane)* |
| *25398-32-7* | *Ethene, 1,1,2,2-tetrafluoro-, telomer with 1,1,1,2,2-pentafluoro-2-iodoethane* |
| *76-19-7* | *Propane, 1,1,1,2,2,3,3,3-octafluoro-* |
| *115-25-3* | *Cyclobutane, 1,1,2,2,3,3,4,4-octafluoro-* |
| *355-25-9* | *Butane, 1,1,1,2,2,3,3,4,4,4-decafluoro-* |
| *423-39-2* | *Butane, 1,1,1,2,2,3,3,4,4-nonafluoro-4-iodo-* |
| *754-34-7* | *Propane, 1,1,1,2,2,3,3-heptafluoro-3-iodo-* |

*Table 4 is a list of PFAS that* ***are reported as part of the Certain PFAS NOL category****. Again, this list was generated from PFAS that are known to be in commerce, primarily from the Toxic Substances Control Act (TSCA). This list is* ***NOT*** *exhaustive.*

*Substances in gray TRI has listed for reporting years 2021 and 2022 at a 100 lb/year threshold.  TURA has adopted these changes for reporting year 2023. Report under TURA as part of the Certain PFAS NOL category for reporting year 2022. For reporting year 2023 these substances will be individually reportable under TURA at 100 lbs.*

| ***Table 4***  ***PFAS Substances Known to be in Commerce that are Reported as part of the***  ***Certain PFAS NOL Category*** | |
| --- | --- |
| *306-91-2* | *Phenanthrene, 1,1,2,2,3,3,4,4,4a,4b,5,5,6,6,7,7,8,8,8a,9,9,10,10,10a-tetracosafluorotetradecahydro-* |
| 306-94-5 | Naphthalene, 1,1,2,2,3,3,4,4,4a,5,5,6,6,7,7,8,8,8a-octadecafluorodecahydro- |
| 307-24-4 | Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- |
| 307-30-2 | 1-Octanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro- |
| 307-34-6 | Octane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-octadecafluoro- |
| 307-60-8 | Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafluoro-12-iodo- |
| 307-63-1 | Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafluoro-14-iodo- |
| 307-70-0 | 1-Undecanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- |
| 307-98-2 | 2-Propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester |
| 311-89-7 | 1-Butanamine, 1,1,2,2,3,3,4,4,4-nonafluoro-N,N-bis(1,1,2,2,3,3,4,4,4-nonafluorobutyl)- |
| 335-27-3 | Cyclohexane, 1,1,2,2,3,3,4,5,5,6-decafluoro-4,6-bis(trifluoromethyl)- |
| 335-36-4 | Cyclohexane, 1,1,2,2,3,3,4,5,5,6-decafluoro-4,6-bis(trifluoromethyl)- |
| 335-42-2 | Furan, 2,2,3,3,4,4,5-heptafluorotetrahydro-5-(1,1,2,2,3,3,4,4,4-nonafluorobutyl)- |
| 335-57-9 | Butanoyl fluoride, 2,2,3,3,4,4,4-heptafluoro- |
| 336-08-3 | Heptane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-hexadecafluoro- |
| 336-59-4 | Hexanedioic acid, 2,2,3,3,4,4,5,5-octafluoro- |
| 338-83-0 | Butanoic acid, 2,2,3,3,4,4,4-heptafluoro-, 1,1'-anhydride |
| 338-84-1 | 1-Propanamine, 1,1,2,2,3,3,3-heptafluoro-N,N-bis(1,1,2,2,3,3,3-heptafluoropropyl)- |
| 355-02-2 | Cyclohexane, 1,1,2,2,3,3,4,4,5,5,6-undecafluoro-6-(trifluoromethyl)- |
| 355-38-4 | Hexanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- |
| 355-42-0 | Hexane, 1,1,1,2,2,3,3,4,4,5,5,6,6,6-tetradecafluoro- |
| 355-43-1 | Hexane, 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodo- |
| 355-50-0 | Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16-tritriacontafluoro-16-iodo- |
| 355-80-6 | 1-Pentanol, 2,2,3,3,4,4,5,5-octafluoro- |
| 356-24-1 | Butanoic acid, 2,2,3,3,4,4,4-heptafluoro-, methyl ester |
| 356-27-4 | Butanoic acid, 2,2,3,3,4,4,4-heptafluoro-, ethyl ester |
| 375-00-8 | Butanenitrile, 2,2,3,3,4,4,4-heptafluoro- |
| 375-01-9 | 1-Butanol, 2,2,3,3,4,4,4-heptafluoro- |
| 375-03-1 | Propane, 1,1,1,2,2,3,3-heptafluoro-3-methoxy- |
| 375-16-6 | Butanoyl chloride, 2,2,3,3,4,4,4-heptafluoro- |
| 375-22-4 | Butanoic acid, 2,2,3,3,4,4,4-heptafluoro- |
| 375-62-2 | Pentanoyl fluoride, 2,2,3,3,4,4,5,5,5-nonafluoro- |
| 375-72-4 | 1-Butanesulfonyl fluoride, 1,1,2,2,3,3,4,4,4-nonafluoro- |
| 375-84-8 | Heptanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoro- |
| 375-85-9 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoro- |
| 375-88-2 | Heptane, 1-bromo-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro- |
| 376-73-8 | Pentanedioic acid, 2,2,3,3,4,4-hexafluoro- |
| 376-90-9 | 1,5-Pentanediol, 2,2,3,3,4,4-hexafluoro- |
| 382-28-5 | Morpholine, 2,2,3,3,5,5,6,6-octafluoro-4-(trifluoromethyl)- |
| 423-62-1 | Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafluoro-10-iodo- |
| 425-38-7 | Propanoyl fluoride, 2,2,3,3-tetrafluoro-3-(trifluoromethoxy)- |
| 428-59-1 | Trifluoro(trifluoromethyl)oxirane |
| 559-40-0 | Cyclopentene, 1,2,3,3,4,4,5,5-octafluoro- |
| 647-42-7 | 1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro- |
| 678-26-2 | Pentane, 1,1,1,2,2,3,3,4,4,5,5,5-dodecafluoro- |
| 756-12-7 | 2-Butanone, 1,1,1,3,4,4,4-heptafluoro-3-(trifluoromethyl)- |
| 756-13-8 | 3-Pentanone, 1,1,1,2,2,4,5,5,5-nonafluoro-4-(trifluoromethyl)- |
| 773-14-8 | Furan, 2,2,3,3,4,4,5,5-octafluorotetrahydro- |
| 813-44-5 | Bis(perfluoroisopropyl)ketone |
| 813-45-6 | 3-Hexanone, 1,1,1,2,4,4,5,5,6,6,6-undecafluoro-2-(trifluoromethyl)- |
| 1547-26-8 | 1-Pentene, 2,3,3,4,4,5,5-heptafluoro- |
| 1623-05-8 | Propane, 1,1,1,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]- |
| 1682-78-6 | Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-(1,1,2,2,2-pentafluoroethoxy)- |
| 1805-22-7 | Perfluoromethylcyclopentane |
| 1187-93-5 | Trifluoromethyl trifluorovinyl ether |
| 1892-03-1 | Cyclopentene, 1,3,3,4,4,5,5-heptafluoro- |
| 2043-47-2 | 1-Hexanol, 3,3,4,4,5,5,6,6,6-nonafluoro- |
| 2043-55-2 | Hexane, 1,1,1,2,2,3,3,4,4-nonafluoro-6-iodo- |
| 2043-57-4 | Octane, 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodo- |
| 2062-98-8 | Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)- |
| 2144-53-8 | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester |
| 2218-54-4 | Butanoic acid, 2,2,3,3,4,4,4-heptafluoro-, sodium salt (1:1) |
| 2641-34-1 | Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]- |
| 2706-90-3 | Pentanoic acid, 2,2,3,3,4,4,5,5,5-nonafluoro- |
| 2927-83-5 | 2,3,3,3-Tetrafluoro-2-(trifluoromethoxy)propionyl fluoride |
| 2994-71-0 | Cyclobutane, 1,1,2,2,3,4-hexafluoro-3,4-bis(trifluoromethyl)- |
| 3330-14-1 | Propane, 1-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2,3,3,3-heptafluoro- |
| 3330-15-2 | Perfluoro-3-(1H-perfluoroethoxy)propane |
| 3330-16-3 | 2H-Perfluoro(5,8-dimethyl-3,6,9-trioxadodecane) |
| 3794-64-7 | Butanoic acid, 2,2,3,3,4,4,4-heptafluoro-, silver(1+) salt (1:1) |
| 3934-23-4 | 2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester |
| 4089-58-1 | Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[1,1,2,2-tetrafluoro-2-(fluorosulfonyl)ethoxy]propoxy]- |
| 6130-43-4 | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoro-, ammonium salt (1:1) |
| 6588-63-2 | Cyclohexanecarbonyl fluoride, 1,2,2,3,3,4,4,5,5,6,6-undecafluoro- |
| 9002-84-0 | Polytetrafluoroethylene |
| 9011-17-0 | Poly(vinylidene fluoride-co-hexafluoropropylene) |
| 10493-43-3 | Ethene, 1,1,2-trifluoro-2-(1,1,2,2,2-pentafluoroethoxy)- |
| 13221-71-1 | Hexafluoro-1,3-bis(trifluoromethyl)cyclobutane |
| 13429-24-8 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, dimer |
| 13695-31-3 | 2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,4-heptafluorobutyl ester |
| 15290-77-4 | Cyclopentane, 1,1,2,2,3,3,4-heptafluoro- |
| 16090-14-5 | Ethanesulfonyl fluoride, 2-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro- |
| 17527-29-6 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester |
| 17631-68-4 | Europium, tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato-βO3,βO5)- |
| 17978-77-7 | Praseodymium, tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato-βO3,βO5)- |
| 19430-93-4 | 1-Hexene, 3,3,4,4,5,5,6,6,6-nonafluoro- |
| 20006-68-2 | Dichloro-3-(perfluoro-2-propoxy)propylmethylsilane |
| 21615-47-4 | Hexanoic acid, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-, ammonium salt (1:1) |
| 24520-19-2 | Pentafluoro(1,2,2-trifluoro-2-((trifluorovinyl)oxy)-1-(trifluoromethyl)ethoxy)benzene |
| 25038-02-2 | Fomblin Y 04 |
| 25038-71-5 | poly(1,1,2,2-tetrafluorobutane-1,4-diyl) |
| 25067-11-2 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1,2,2-tetrafluoroethene |
| 25190-89-0 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene and 1,1,2,2-tetrafluoroethene |
| 25291-17-2 | 1-Octene, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro- |
| 25684-76-8 | Ethene, 1,1,2,2-tetrafluoro-, polymer with 1,1-difluoroethene |
| 26425-79-6 | Ethene, 1,1,2,2-tetrafluoro-, polymer with 1,2,2-trifluoro-2-(trifluoromethoxy)ethene |
| 26650-09-9 | Thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester |
| 26654-97-7 | Ethanesulfonyl fluoride, 2-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-, polymer with 1,1,2,2-tetrafluoroethene |
| 26655-00-5 | Propane, 1,1,1,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]-, polymer with 1,1,2,2-tetrafluoroethene |
| 26655-00-5 | Perfluoroalkoxy alkanes (PFA) |
| 26658-70-8 | Benzene, pentafluoro[1,2,2-trifluoro-2-[(trifluoroethenyl)oxy]-1-(trifluoromethyl)ethoxy]-, polymer with tetrafluoroethene and trifluoro(trifluoromethoxy)ethene |
| 26738-51-2 | 3,6,9,12-Tetraoxapentadecane, 1,1,1,2,4,4,5,7,7,8,10,10,11,13,13,14,14,15,15,15-eicosafluoro-5,8,11-tris(trifluoromethyl)- |
| 26779-98-6 | Propanoic acid, ethenyl ester, polymer with 1,1-difluoroethene and 1,1,2,2-tetrafluoroethene |
| 27029-05-6 | 1-Propene, polymer with 1,1,2,2-tetrafluoroethene |
| 27619-88-1 | 1-Hexanesulfonyl chloride, 3,3,4,4,5,5,6,6,6-nonafluoro- |
| 27619-89-2 | 1-Octanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro- |
| 27619-97-2 | 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro- |
| 29809-34-5 | Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20-hentetracontafluoro-20-iodo- |
| 29809-35-6 | Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18-heptatriacontafluoro-18-iodo- |
| 31175-20-9 | Ethanesulfonic acid, 2-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-, polymer with 1,1,2,2-tetrafluoroethene |
| 34454-97-2 | 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methyl- |
| 34455-29-3 | 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl]amino]-, inner salt |
| 34788-82-4 | Europium, tris[3-[2,2,3,3,4,4,4-heptafluoro-1-(oxo-βO)butyl]-1,7,7-trimethylbicyclo[2.2.1]heptan-2-onato-βO]- |
| 35397-13-8 | Propane, 1,1,1,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]-, polymer with 1-chloro-1,2,2-trifluoroethene and ethene |
| 35560-16-8 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with ethene and 1,1,2,2-tetrafluoroethene |
| 37486-69-4 | 3,6,9,12,15-Pentaoxaoctadecane, 1,1,1,2,4,4,5,7,7,8,10,10,11,13,13,14,16,16,17,17,18,18,18-tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)- |
| 37626-13-4 | Poly[4,5-difluoro-2,2-bis(trifluoromethyl)-1,3-dioxole-co-tetrafluoroethylene] |
| 38565-52-5 | Oxirane, 2-(2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)- |
| 42532-60-5 | 2,3,3,3-Tetrafluoro-2-(trifluoromethyl)propanenitrile |
| 51798-33-5 | Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], α-(1-carboxy-1,2,2,2-tetrafluoroethyl)-ω-[tetrafluoro(trifluoromethyl)ethoxy]- |
| 51851-37-7 | Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- |
| 52591-27-2 | 2-Propenoic acid, 3,3,4,4,5,5,6,6,6-nonafluorohexyl ester |
| 53518-00-6 | 1-Propanaminium, N,N,N-trimethyl-3-[[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]-, chloride (1:1) |
| 54302-04-4 | Chlorotrifluoro ethylene, ethylene, hexafluoroisobutylene terpolymer |
| 54950-05-9 | Butanedioic acid, 2-sulfo-, 1,4-bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ester, sodium salt (1:1) |
| 55716-11-5 | Morpholine, 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,2,2,2-pentafluoroethyl)- |
| 56357-87-0 | Ethene, 1,1,2,2-tetrafluoro-, polymer with 1,1-difluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 56467-05-1 | Poly(oxy-1,2-ethanediyl), α-(tridecafluorohexyl)-ω-hydroxy- |
| 57570-64-6 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene, 1,1,2,2-tetrafluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 58194-00-6 | Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]- |
| 60164-51-4 | Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], α-(1,1,2,2,2-pentafluoroethyl)-ω-[tetrafluoro(trifluoromethyl)ethoxy]- |
| 63654-41-1 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1,1,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propane and 1,1,2,2-tetrafluoroethene |
| 63863-43-4 | Propanoic acid, 3-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-, methyl ester |
| 63863-44-5 | Propanoic acid, 3-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-, methyl ester, polymer with 1,1,2,2-tetrafluoroethene |
| 65059-79-2 | 1-Butene, 4-bromo-3,3,4,4-tetrafluoro-, polymer with 1,1-difluoroethene, 1,1,2,2-tetrafluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 65208-35-7 | Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], .alpha.-[1,2,2,2-tetrafluoro-1-(fluorocarbonyl)ethyl]-.omega.-[tetrafluoro(trifluoromethyl)ethoxy]- |
| 65530-82-7 | Poly(difluoromethylene), alpha,omega-difluoro- |
| 65530-85-0 | Poly(difluoromethylene), .alpha.-(cyclohexylmethyl)-.omega.-hydro- |
| 67584-51-4 | Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]-, potassium salt (1:1) |
| 67584-55-8 | 2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl ester |
| 67584-59-2 | 2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl ester |
| 67939-95-1 | 1-Propanaminium, N,N,N-trimethyl-3-[[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]-, iodide (1:1) |
| 68182-34-3 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene, 1,1,1,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propane and 1,1,2,2-tetrafluoroethene |
| 68258-85-5 | 1-Hexene, 3,3,4,4,5,5,6,6,6-nonafluoro-, polymer with ethene and 1,1,2,2-tetrafluoroethene |
| 68259-10-9 | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, ammonium salt (1:1) |
| 68259-11-0 | Pentanoic acid, 2,2,3,3,4,4,5,5,5-nonafluoro-, ammonium salt (1:1) |
| 68298-12-4 | 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-methyl- |
| 68298-79-3 | Poly(oxy-1,2-ethanediyl), α-[2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 68310-18-9 | Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl]-ω-hydroxy- |
| 68555-77-1 | 1-Butanesulfonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,4-nonafluoro- |
| 68891-05-4 | Ethene, tetrafluoro-, homopolymer, α-fluoro-ω-(2-hydroxyethyl)-, citrate, reaction products with 1,6-diisocyanatohexane |
| 69087-47-4 | Propanoic acid, 3-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-, polymer with 1,1,2,2-tetrafluoroethene |
| 69116-73-0 | Propanoic acid, 3-[1-[difluoro[1,2,2,2-tetrafluoro-1-(fluorocarbonyl)ethoxy]methyl]-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-, methyl ester |
| 69804-19-9 | Perfluoro(3-(1-(ethenyloxy)propan-2-yloxy)propanenitrile) |
| 69991-61-3 | Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd. |
| 69991-62-4 | Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd., reduced |
| 69991-67-9 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd. |
| 70225-18-2 | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1) |
| 71832-66-1 | Propanenitrile, 3-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-, polymer with 1,1,2,2-tetrafluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 74398-72-4 | 1-Butene, 4-bromo-3,3,4,4-tetrafluoro-, polymer with 1,1-difluoroethene, 1,1,2,3,3,3-hexafluoro-1-propene and 1,1,2,2-tetrafluoroethene |
| 74499-71-1 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with ethene, 1,1,1,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propane and 1,1,2,2-tetrafluoroethene |
| 79070-11-4 | Poly(difluoromethylene), α-chloro-ω-(2,2-dichloro-1,1,2-trifluoroethyl)- |
| 86508-42-1 | Perfluoro compounds, C5-18 |
| 88645-29-8 | Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd., reduced, Me esters, reduced |
| 101316-90-9 | Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd., reduced, Me esters, reduced, acrylates |
| 125061-94-1 | Naphthalene, [difluoro(1,2,2,3,3,4,4,5,5,6,6-undecafluorocyclohexyl)methyl]heptadecafluorodecahydro- |
| 126066-30-6 | Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], α-[1,2,2,2-tetrafluoro-1-(hydroxymethyl)ethyl]-ω-[tetrafluoro(trifluoromethyl)ethoxy]- |
| 132182-92-4 | Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-(trifluoromethyl)- |
| 134035-61-3 | Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], α-[1,2,2,2-tetrafluoro-1-(methoxycarbonyl)ethyl]-ω-[tetrafluoro(trifluoromethyl)ethoxy]- |
| 147545-41-3 | 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methyl-, phosphate (ester) |
| 149935-01-3 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene, ethene, 1,1,2,2-tetrafluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 156559-18-1 | 2-Oxiranemethanol, polymers with reduced Me esters of reduced polymd. oxidized tetrafluoroethylene |
| 161075-12-3 | Ethene, tetrafluoro-, oxidized, polymd., reduced, Me esters |
| 162492-15-1 | Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd., reduced, Me esters, reduced, ethoxylated |
| 163702-05-4 | Butane, 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluoro- |
| 163702-06-5 | Propane, 2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoro- |
| 163702-07-6 | Butane, 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy- |
| 163702-08-7 | Propane, 2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoro- |
| 165178-32-5 | Propane, 1,1,1,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]-, polymer with 1,1,2,2-tetrafluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 177484-43-4 | Propanenitrile, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propoxy]-, polymer with 1,1,2,2-tetrafluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 185701-88-6 | Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]-, polymer with 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, reaction products with 3-(ethenyldimethylsilyl)-N-methylbenzenamine |
| 200013-65-6 | Diphosphoric acid, polymers with ethoxylated reduced Me esters of reduced polymd. oxidized tetrafluoroethylene |
| 212335-64-3 | 2-Propenoic acid, reaction products with N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonamide |
| 220075-01-4 | Propanedioic acid, 2-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-, 1,3-dimethyl ester |
| 220182-27-4 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, telomer with chlorotrifluoroethene, oxidized, reduced, Et ester, hydrolyzed |
| 220459-70-1 | Glycine, N,N-bis[2-hydroxy-3-(2-propen-1-yloxy)propyl]-, sodium salt (1:1), reaction products with ammonium hydroxide and 1,1,1,2,2-pentafluoro-2-iodoethane-tetrafluoroethylene telomer |
| 220689-12-3 | Phosphonium, tetrabutyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) |
| 226409-30-9 | Propanedioic acid, 2-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-, 1,3-bis[4-(ethenyloxy)butyl] ester |
| 274917-93-0 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C3 fraction |
| 274917-94-1 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C4 fraction |
| 274917-95-2 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C5 fraction |
| 274917-96-3 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C6 fraction |
| 274917-97-4 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C7 fraction |
| 274918-01-3 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C8 fraction |
| 274918-02-4 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C9 fraction |
| 274918-03-5 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C10 fraction |
| 274918-09-1 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C11 fraction |
| 274918-10-4 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C12 fraction |
| 274918-12-6 | Ethene, tetrafluoro-, oxidized, polymd., reduced, decarboxylated, C13 fraction |
| 297730-93-9 | Hexane, 3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)- |
| 328389-90-8 | 1,2-Propanediol, 3-(diethylamino)-, polymers with 5-isocyanato-1 |
| 332350-90-0 | Phosphonium, tributyl(2-methoxypropyl)-, salt with 1,1,2,2,3,3,4,4,4-nonafluoro-N-methyl-1-butanesulfonamide (1:1) |
| 332350-93-3 | Phosphonium, triphenyl(phenylmethyl)-, salt with 1,1,2,2,3,3,4,4,4-nonafluoro-N-methyl-1-butanesulfonamide (1:1) |
| 421595-49-5 | 2-Propenoic acid, 2-hydroxyethyl ester, adduct with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (1:1), reaction products with ethoxylated reduced Me esters of reduced polymd. oxidized tetrafluoroethylene |
| 452080-67-0 | Boron, trifluoro(tetrahydrofuran)-, (T-4)-, polymer with 3-methyl |
| 475678-78-5 | Oxetane, 3-methyl-3-[[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]methyl]- |
| 484024-67-1 | 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-, ammonium salt (1:1) |
| 502164-17-2 | Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd., reduced, Et esters |
| 753501-40-5 | Boron, trifluoro(tetrahydrofuran)-, (T-4)-, polymer with 3-methyl-3-[( |
| 753501-43-8 | Boron, trifluoro(tetrahydrofuran)-, (T-4)-, polymer with .alpha.-hy |
| 864910-70-3 | Boron, trifluoro(tetrahydrofuran)-, (T-4)-, polymer with 2-methy |
| 878545-84-7 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1,2,2-tetrafluoroethene, 1,1,2-trifluoro-2-(1,1,2,2,2-pentafluoroethoxy)ethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene |
| 957209-18-6 | Furan, 2,3,3,4,4-pentafluorotetrahydro-5-methoxy-2,5-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]- |
| 1224429-82-6 | Phosphoric acid, mixed esters with polyethylene glycol and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanol, ammonium salts |
| 1370442-66-2 | Iodonium, diphenyl-, 4,4'-di-C10-13-alkyl derivs., (OC-6-11)-hexafluoroantimonates(1-) |
| 1092822-31-5 | 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2-hyd |
| 1269217-82-4 | Thieno[3,4-b]thiophene, homopolymer, 2-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoroethanesulfonic acid-tetrafluoroethylene polymer-doped |
| 1279108-20-1 | Hexane, 1,6-diisocyanato-, homopolymer, α-[1-[[[3-[[3-(dimethylamino)propyl]amino]propyl]amino]carbonyl]-1,2,2,2-tetrafluoroethyl]-ω-(1,1,2,2,3,3,3-heptafluoropropoxy)poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]]-blocked |
| 1029089-63-1 | Boron, trifluoro(tetrahydrofuran)-, (T-4)-, polymer with 3-methyl-3-((2,2,3,3,3-pentafluoropropoxy)methyl)oxetane, ether with 2,2-dimethyl-1,3-propanediol (2:1), polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl) and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane |
| 1033385-42-0 | Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], α-[1,2,2,2-tetrafluoro-1-[[(2-hydroxyethyl)amino]carbonyl]ethyl]-ω-[tetrafluoro(trifluoromethyl)ethoxy]-, ether with α-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl) (2:1) |
| 1214752-87-0 | Borate(1-), tetrahydro-, sodium (1:1), reaction products with reduced polymd. oxidized tetrafluoroethylene, hydrolyzed, diallyl ethers, polymers with 2,4,6,8-tetramethylcyclotetrasiloxane, Si-(8,13-dioxo-4,7,12-trioxa-9-azapentadec-14-en-1-yl) derivs. |
| 1378928-76-7 | Ethanesulfonyl fluoride, 2-[1-[difluoro][(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-, polymer with 1,1,2,2-tetrafluoroethene, hydrolyzed, potassium salts |
| 1378930-04-1 | Ethanesulfonyl fluoride, 2-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-, polymer with 1,1,2,2-tetrafluoroethene, hydrolyzed |
| 1378930-30-3 | Propanoic acid, 3-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-, methyl ester, polymer with 1,1,2,2-tetrafluoroethene, hydrolyzed, potassium salts |
| 1564254-27-8 | Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd., reduced, Me esters, reduced, N-(3-isocyanatomethylphenyl)carbamates |
| 1627515-87-0 | Hexanedioic acid, polymers with 1,3-butanediol, 1,4-butanediol, di-Et malonate, 1,6-diisocyanatohexane, ethoxylated reduced Me esters of reduced polymd. oxidized tetrafluoroethylene, 1,6-hexanediol, 1,1'-methylenebis[isocyanatobenzene], propylene glycol a |
| 1687740-67-5 | Ethanesulfonyl fluoride, 1,1,2,2-tetrafluoro-2-[(1,2,2-trifluoroethenyl)oxy]-, polymer with 1,1,2,2-tetrafluoroethene, hydrolyzed, lithium salts |
| 1708962-18-8 | Methanol, reaction products with 1,1,1,2,2,3,4,5,5,6,6,7,7,7-tetradecafluoro-3-heptene |
| 1708962-19-9 | Methanol, reaction products with 1,1,1,2,3,4,4,5,5,6,6,7,7,7-tetradecafluoro-2-heptene |
| 1807944-82-6 | 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1) |
| NA | EFEP ethylene-tetrafluoroethylene-hexafluoropropylene terpolymer |
| 375-22-4 | PFBA (reportable under TRI as of 1/1/23) |
| 45048-62-2 | Perfluorobutanoate (reportable under TRI as of 1/1/23) |
| 10495-86-0 | Ammonium perfluorobutanoate (reportable under TRI as of 1/1/23) |
| 2966-54-3 | Potassium perfluorobutanoate (reportable under TRI as of 1/1/23) |
| 2218-54-4 | Sodium perfluorobutanoate (reportable under TRI as of 1/1/23) |
| 2728655-42-1 | Alcohols, C8-16, γ-ω-perfluoro, reaction products with 1,6-diisocyanatohexane, glycidol and stearyl alc. (reportable under TRI as of 1/1/23) |
| 2738952-61-7 | Acetamide, N-[3-(dimethylamino)propyl]-, 2-[(γ-ω-perfluoro-C4-20-alkyl)thio] derivs. (reportable under TRI as of 1/1/23) |
| 2744262-09-5 | Acetic acid, 2-[(γ-ω-perfluoro-C4-20-alkyl)thio] derivs., 2-hydroxypropyl esters (reportable under TRI as of 1/1/23) |
| 2742694-36-4 | Acetamide, N-(2-aminoethyl)-, 2-[(γ-ω-perfluoro-C4-20-alkyl)thio] derivs., polymers with N1,N1-dimethyl-1,3-propanediamine, epichlorohydrin and ethylenediamine, oxidized (reportable under TRI as of 1/1/23) |
| 307-24-4 | Perfluorohexanoic acid (PFHxA) (reportable under TRI as of 1/1/24) |
| 2923-26-4 | Sodium perfluorohexanoate (reportable under TRI as of 1/1/24) |
| 21615-47-4 | Ammonium perfluorohexanoate (reportable under TRI as of 1/1/24) |
| 82113-65-3 | 1,1,1-Trifluoro-N-[(trifluoromethyl)sulfonyl] methanesulfonamide (TFSI) (reportable under TRI as of 1/1/24) |
| 90076-65-6 | Lithium bis[(trifluoromethyl)sulfonyl] azanide (reportable under TRI as of 1/1/24) |
| 2816091-53-7 | Betaines, dimethyl(.gamma.-.omega.-perfluoro-.gamma.-hydro-C8-18-alkyl) (reportable under TRI as of 1/1/24) |

Diagram

Description automatically generated

Diagram

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1. “In [[organic chemistry](https://en.wikipedia.org/wiki/Organic_chemistry)](https://en.wikipedia.org/wiki/Organic_chemistry), a **moiety** is a part of a [molecule](https://en.wikipedia.org/wiki/Molecule) that is given a name because it is identified as a part of other molecules as well. ”Source: [[Moiety (chemistry) - Wikipedia](https://en.wikipedia.org/wiki/Moiety_(chemistry))](https://en.wikipedia.org/wiki/Moiety_(chemistry)) [↑](#footnote-ref-1)
2. In determining the amount or quantity of a toxic substance manufactured, processed, or otherwise used at a facility, the toxics user shall not consider the amount of the toxic substance if it is present in a mixture in concentrations equal to or below the de minimus concentration for that toxic substance set forth in 40 CFR Part 372.38(a); provided, however, that this de minimis exemption shall not apply for any toxic or hazardous substance specified as a chemical of special concern in 40 CFR Part 372.28. [↑](#footnote-ref-2)
3. Article means a manufactured item, other than an item which is manufactured at the facility: (a) which is formed to a specific shape or design during manufacture; (b) which has end use functions dependent in whole or in part upon its shape or design during end use; and (c) which does not release a toxic substance under normal conditions of processing or use of that item at the facility or establishments. [↑](#footnote-ref-3)