



BILLING CODE 6560-50-P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 372

[EPA-HQ-TRI-2020-0142; FRL-10008-09]

RIN 2070-AK63

Implementing Statutory Addition of Certain Per- and Polyfluoroalkyl Substances; Toxic Chemical Release Reporting

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: EPA is adding 172 per- and polyfluoroalkyl substances (PFAS) to the list of toxic chemicals subject to reporting under section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and section 6607 of the Pollution Prevention Act (PPA). EPA is also setting a manufacture, processing, and otherwise use reporting threshold of 100 pounds for each PFAS being added to the list. These actions are being taken to comply with section 7321 of the National Defense Authorization Act for Fiscal Year 2020 enacted on December 20, 2019. As this action is being taken to conform the regulations to a Congressional legislative mandate, notice and comment rulemaking is unnecessary, and this rule is effective immediately.

DATES: This rule is effective [*INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER*].

FOR FURTHER INFORMATION CONTACT: *For technical information contact:* Daniel R. Bushman, Toxics Release Inventory Program Division, Mailcode 7410M, Office of Pollution Prevention and Toxics, Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460-0001; telephone number: (202) 566-0743; email address:

bushman.daniel@epa.gov.

For general information contact: The Emergency Planning and Community Right-to-Know Hotline; telephone numbers: toll free at (800) 424-9346 (select menu option 3) or (703) 348-5070 in the Washington, DC Area and International; or go to <https://www.epa.gov/home/epa-hotlines>.

SUPPLEMENTARY INFORMATION:

I. General Information

A. Does this Action Apply to Me?

You may be potentially affected by this action if you manufacture, process, or otherwise use any of the PFAS listed in this rule. The following list of North American Industrial Classification System (NAICS) codes is not intended to be exhaustive, but rather provides a guide to help readers determine whether this document applies to them. Potentially affected entities may include:

- Facilities included in the following NAICS manufacturing codes (corresponding to Standard Industrial Classification (SIC) codes 20 through 39): 311*, 312*, 313*, 314*, 315*, 316, 321, 322, 323*, 324, 325*, 326*, 327, 331, 332, 333, 334*, 335*, 336, 337*, 339*, 111998*, 211130*, 212324*, 212325*, 212393*, 212399*, 488390*, 511110, 511120, 511130, 511140*, 511191, 511199, 512230*, 512250*, 519130*, 541713*, 541715* or 811490*.

*Exceptions and/or limitations exist for these NAICS codes.

- Facilities included in the following NAICS codes (corresponding to SIC codes other than SIC codes 20 through 39): 212111, 212112, 212113 (corresponds to SIC code 12, Coal Mining (except 1241)); or 212221, 212222, 212230, 212299 (corresponds to SIC code 10, Metal Mining (except 1011, 1081, and 1094)); or 221111, 221112, 221113, 221118, 221121, 221122,

221330 (limited to facilities that combust coal and/or oil for the purpose of generating power for distribution in commerce) (corresponds to SIC codes 4911, 4931, and 4939, Electric Utilities); or 424690, 425110, 425120 (limited to facilities previously classified in SIC code 5169, Chemicals and Allied Products, Not Elsewhere Classified); or 424710 (corresponds to SIC code 5171, Petroleum Bulk Terminals and Plants); or 562112 (limited to facilities primarily engaged in solvent recovery services on a contract or fee basis (previously classified under SIC code 7389, Business Services, NEC)); or 562211, 562212, 562213, 562219, 562920 (limited to facilities regulated under the Resource Conservation and Recovery Act, subtitle C, 42 U.S.C. 6921 *et seq.*) (corresponds to SIC code 4953, Refuse Systems).

- Federal facilities.

A more detailed description of the types of facilities covered by the NAICS codes subject to reporting under EPCRA section 313 can be found at: <https://www.epa.gov/toxics-release-inventory-tri-program/tri-covered-industry-sectors>. To determine whether your facility would be affected by this action, you should carefully examine the applicability criteria in part 372, subpart B of title 40 of the Code of Federal Regulations. Federal facilities are required to report under Executive Order 13834 (<https://www.govinfo.gov/content/pkg/FR-2018-05-22/pdf/2018-11101.pdf>) as explained in the Implementing Instructions from the Council on Environmental Quality (https://www.sustainability.gov/pdfs/eo13834_instructions.pdf). If you have questions regarding the applicability of this action to a particular entity, consult the person listed under **FOR FURTHER INFORMATION CONTACT.**

B. What Action is the Agency Taking?

EPA is adding 172 PFAS to the EPCRA section 313 list of toxic chemicals (more commonly known as the Toxics Release Inventory (TRI)). EPA is also setting a manufacture,

processing, and otherwise use reporting threshold of 100 pounds for each PFAS being added to the list.

II. Background

On December 20, 2019 the National Defense Authorization Act for Fiscal Year 2020 (NDAA) was signed into law (Pub. L. 116-92, <https://www.congress.gov/public-laws/116th-congress>). Among other provisions, section 7321 of the NDAA adds certain PFAS to the EPCRA section 313 list of reportable toxic chemicals as of January 1, 2020. Specifically, the NDAA identifies 14 chemicals by name and/or Chemical Abstract Service Registry Number (CASRN) in section 7321(b) and identifies additional PFAS or class of PFAS that must be added based on the following criteria:

- It is listed as an active chemical substance in the February 2019 update to the inventory under TSCA section 8(b)(1) (15 U.S.C. 2607(b)(1)); and
- On the date of enactment of the NDAA, is subject to the provisions of 40 CFR 721.9582 or 40 CFR 721.10536.

EPA has reviewed the above-listed criteria and found 170 chemicals that meet the requirements of this part of the NDAA and whose identity is not confidential business information (CBI). Twelve of these are among the 14 PFAS specifically listed in the NDAA; with the addition of the other two, there are a total of 172 PFAS subject to this law whose identity is not CBI. Under section 7321 of the NDAA, EPA must review CBI claims before adding any PFAS to the list whose identity is subject to a claim of protection from disclosure under 5 U.S.C. 552(a). Under the NDAA EPA must:

- Review a claim of protection from disclosure; and
- Require that person to reassert and substantiate or resubstantiate that claim in

accordance with TSCA section 14(f) (15 U.S.C. 2613(f)).

In addition, if EPA determines that the chemical identity of a PFAS or class PFAS qualifies for protection from disclosure, EPA must include the PFAS or class of PFAS, on the toxics release inventory in a manner that does not disclose the protected information.

The names and CASRNs for some of the chemicals listed under 40 CFR 721.9582 and/or 40 CFR 721.10536 are subject to a claim of protection from disclosure. Therefore, the chemicals that are subject to a claim of protection from disclosure will not be added to the EPCRA section 313 toxic chemical list until EPA completes the process provided by section 7321(e) of the NDAA. Updates regarding this process will be provided via the Addition of Certain PFAS to the TRI by the National Defense Authorization Act webpage: <https://www.epa.gov/toxics-release-inventory-tri-program/addition-certain-pfas-tri-national-defense-authorization-act>. Therefore, 172 PFAS will be added at this time. Note that not every substance subject to §§ 721.9582 and 721.10536 was added to the TRI chemical list, only those substances that met the listing criteria in the NDAA.

As established by the NDAA, the addition of these PFAS is to be effective January 1 of the calendar year following the date of enactment of the NDAA. Accordingly, these 172 non-CBI PFAS are reportable for the 2020 reporting year (i.e., reports due July 1, 2021). EPA is issuing this final rule revising the EPCRA section 313 list of reportable chemicals in 40 CFR 372.65 to include the 172 non-CBI PFAS added by the NDAA to the EPCRA section 313 list of reportable chemicals in 40 CFR 372.65. In addition, the NDAA established a manufacture, processing, and otherwise use reporting threshold of 100 pounds for each of the listed PFAS chemicals listed under the NDAA. The NDAA also requires that no later than 5 years from the date of enactment of the NDAA that EPA must:

- Determine whether revision of the threshold is warranted; and
- If EPA determines a revision to the threshold is warranted, initiate a revision under EPCRA section 313(f)(2) (42 U.S.C. 11023(f)(2)).

Therefore, EPA is amending the regulatory text by adding the 172 PFAS to 40 CFR 372.65 with reporting thresholds of 100 pounds identified in 40 CFR 372.29.

III. Good Cause Exception

Under 5 U.S.C. 553(b)(3)(A), the notice-and-comment requirements of the Federal Administrative Procedure Act (5 U.S.C. 551-706) do not apply where the Agency “for good cause finds . . . that notice and public procedure thereon are impracticable, unnecessary, or contrary to the public interest.” Because this action is being taken to comply with an Act of Congress where Congress added these chemicals to the TRI and lowered the reporting thresholds for these chemicals, and thus EPA has no discretion as to the outcome of this rule, EPA hereby finds that notice and comment on this action are unnecessary. The action merely fulfills a mandate from Congress by aligning the CFR with the self-effectuating changes provided by the NDAA. This action is effective immediately upon publication in the Federal Register. Under 5 U.S.C. 553(d)(3), 30-day advance notice of a rule is not required where the Agency provides otherwise for good cause. EPA finds that good cause for an immediate effective date exists in this case because, as explained above, this rule merely amends the regulations in 40 CFR part 372 to reflect the action taken by Congress.

IV. Statutory and Executive Order Reviews

Additional information about these statutes and Executive orders can be found at <http://www2.epa.gov/laws-regulations/laws-and-executive-orders>.

A. Executive Order 12866: Regulatory Planning and Review and Executive Order 13563:

Improving Regulation and Regulatory Review

This action is not a significant regulatory action and was therefore not submitted to the Office of Management and Budget (OMB) for review under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011).

B. Executive Order 13771: Reducing Regulations and Controlling Regulatory Costs

This action is not a regulatory action under Executive Order 13771 (82 FR 9339, February 3, 2017) because this action is not significant under Executive Order 12866.

C. Paperwork Reduction Act (PRA)

The Office of Management and Budget (OMB) has approved the information collection activities contained in this rule under the PRA, 44 U.S.C. 3501 *et seq.*, and has assigned OMB control number 2070-0212. This was an emergency ICR since the collection of this information was mandated by an act of Congress effective 1/1/2020. EPA will follow up this emergency ICR with a revision to the existing ICR that covers reporting under EPCRA section 313. You can find a copy of the emergency ICR in the docket for this rule, estimated impacts are presented here.

Respondents/affected entities: Facilities that submit annual reports under section 313 of EPCRA and section 6607 of PPA.

Respondent's obligation to respond: Mandatory (EPCRA section 313)

Estimated number of respondents: 500

Frequency of response: Annual.

Total estimated burden: 17,852 hours (per year). Burden is defined at 5 CFR 1320.3(b).

Total estimated cost: \$1 million (per year), includes \$0 annualized capital or operation & maintenance costs.

An agency may not conduct or sponsor, and a person is not required to respond to, a

collection of information unless it displays a currently valid OMB control number. The OMB control numbers for the EPA's regulations in 40 CFR are listed in 40 CFR part 9.

D. Regulatory Flexibility Act (RFA)

This rule is not subject to the RFA, 5 U.S.C. 601 *et seq.*, which generally requires an agency to prepare a regulatory flexibility analysis for any rule that is estimated to have a significant economic impact on a substantial number of small entities. This rule is not subject to notice and comment requirements under the APA or any other statute because although the rule is subject to the APA, the Agency has invoked the "good cause" exemption under 5 U.S.C. 553(b) (see Unit III.).

E. Unfunded Mandates Reform Act (UMRA)

This action does not contain any unfunded mandate as described in UMRA, 2 U.S.C. 1531-1538, and does not significantly or uniquely affect small governments. The action will impose no enforceable duty on any state, local or tribal governments or the private sector.

F. Executive Order 13132: Federalism

This action does not have federalism implications, as specified in Executive Order 13132 (64 FR 43255, August 10, 1999). It will not have substantial direct effects on the states, on the relationship between the National Government and the States, or on the distribution of power and responsibilities among the various levels of government.

G. Executive Order 13175: Consultation and Coordination with Indian Tribal Governments

This action does not have tribal implications as specified in Executive Order 13175 (65 FR 67249, November 9, 2000). This rule will not impose substantial direct compliance costs on Indian Tribal Governments. Thus, Executive Order 13175 does not apply to this action.

H. Executive Order 13045: Protection of Children from Environmental Health Risks and Safety

Risks

EPA interprets Executive Order 13045 (62 FR 19885, April 23, 1997), as applying only to those regulatory actions that concern health or safety risks, such that the analysis required under section 5-501 of Executive Order 13045 has the potential to influence the regulation. This action is not subject to Executive Order 13045 because it does not establish an environmental standard intended to mitigate health or safety risks.

I. Executive Order 13211: Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use

This action is not a “significant energy action” as defined in Executive Order 13211 (66 FR 28355, May 22, 2001), because it is not likely to have a significant adverse effect on the supply, distribution or use of energy.

J. National Technology Transfer and Advancement Act (NTTAA)

This rulemaking does not involve technical standards that would require Agency consideration under NTTAA section 12(d), 15 U.S.C. 272 note.

K. Executive Order 12898: Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations

This action does not entail special considerations of environmental justice related issues as delineated by Executive Order 12898 (59 FR 7629, February 16, 1994), because it does not establish an environmental health or safety standard. This action involves additions to reporting requirements that will not affect the level of protection provided to human health or the environment.

V. Congressional Review Act (CRA)

This action is subject to the CRA, 5 U.S.C. 801 *et seq.*, and the EPA will submit a rule report to each House of the Congress and to the Comptroller General of the United States. The CRA allows the issuing agency to make a rule effective sooner than otherwise provided by the CRA if the agency makes a good cause finding that notice-and-comment rulemaking procedures are impracticable, unnecessary or contrary to the public interest (5 U.S.C. 808(2)). The EPA has made a good cause finding for this rule as discussed in Unit III., including the basis for that finding. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

List of Subjects in 40 CFR Part 372

Environmental protection, Community right-to-know, Reporting and recordkeeping requirements, Toxic chemicals.

Dated: May 18, 2020.

Alexandra Dapolito Dunn,

Assistant Administrator, Office of Chemical Safety and Pollution Prevention.

Therefore, 40 CFR part 372 is amended as follows:

PART 372—[AMENDED]

1. The authority citation for part 372 continues to read as follows:

Authority: 42 U.S.C. 11023 and 11048.

§ 372.22 [Amended]

2. Amend § 372.22(c) by removing the text “§ 372.25, § 372.27, or § 372.28” and adding in its place “§ 372.25, § 372.27, § 372.28, or § 372.29”.

§ 372.25 [Amended]

3. Amend § 372.25 as follows:

a. In the introductory text, remove the text “Except as provided in §§ 372.27 and 372.28” and add in its place “Except as provided in § 372.27, § 372.28, and § 372.29”.

b. In paragraphs (f), (g), and (h), remove the text “§ 372.25, § 372.27, or § 372.28” add in its place “this section or § 372.27, § 372.28, or § 372.29”.

4. Add § 372.29 to subpart B to read as follows:

§ 372.29 Thresholds for per- and polyfluoroalkyl substances.

Notwithstanding § 372.25, for the chemicals set forth in § 372.65(d) and (e) the manufacturing, processing, and otherwise use thresholds are 100 pounds.

§ 372.30 [Amended]

5. Amend § 372.30 as follows:

a. In paragraph (a), remove the text “in § 372.25, § 372.27, or § 372.28” and add in its place “in § 372.25, § 372.27, § 372.28, or § 372.29”.

b. In paragraphs (b)(1), (b)(3) introductory text, and (b)(3)(i) and (iv), remove the text “§ 372.25, § 372.27, or § 372.28” and add in its place “§ 372.25, § 372.27, § 372.28, or § 372.29.”

§ 372.38 [Amended]

6. Amend § 372.38(b), (c), (d), (f), (g), and (h) by removing the text “§ 372.25, § 372.27, or § 372.28” and adding in its place “§ 372.25, § 372.27, § 372.28, or § 372.29.”

7. Amend § 372.65 as follows:

a. By revising the introductory text; and

b. By adding paragraphs (d) and (e).

The revision and additions read as follows:

§ 372.65 Chemicals and chemical categories to which this part applies.

The requirements of this part apply to the chemicals and chemical categories listed in this section. This section contains five listings. Paragraph (a) of this section is an alphabetical order listing of those chemicals that have an associated Chemical Abstracts Service (CAS) Registry number. Paragraph (b) of this section contains a CAS number order list of the same chemicals listed in paragraph (a) of this section. Paragraph (c) of this section contains the chemical categories for which reporting is required. These chemical categories are listed in alphabetical order and do not have CAS numbers. Paragraph (d) of this section is an alphabetical order listing of the per- and polyfluoroalkyl substances and their associated CAS Registry number. Paragraph (e) of this section contains a CAS number order list of the same chemicals listed in paragraph (d) of this section. Each listing identifies the effective date for reporting under § 372.30.

* * * * *

(d) *Per- and polyfluoroalkyl substances alphabetical listing.*

Table 4 to Paragraph (d)

Chemical Name	CAS No.	Effective Date
Alcohols, C8-14, γ - ω -perfluoro	68391-08-2	1/1/20
Alkenes, C8-14 α -, δ - ω -perfluoro	97659-47-7	1/1/20
Alkyl iodides, C4-20, γ - ω -perfluoro	68188-12-5	1/1/20

Ammonium perfluorooctanoate	3825-26-1	1/1/20
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	68515-62-8	1/1/20
Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(γ - ω -perfluoro-C6-20-alkyl)thio] derivs.	68187-25-7	1/1/20
2-[Butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate	383-07-3	1/1/20
Chromium(III) perfluorooctanoate	68141-02-6	1/1/20
Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt	67584-42-3	1/1/20
Cyclohexanesulfonic acid, decafluoro(trifluoromethyl)-, potassium salt	68156-07-0	1/1/20
Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt	68156-01-4	1/1/20
Cyclohexanesulfonic acid, undecafluoro-, potassium salt	3107-18-4	1/1/20
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-	2043-53-0	1/1/20
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	67906-42-7	1/1/20
1-Decanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	27619-90-5	1/1/20
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	678-39-7	1/1/20
Disulfides, bis(γ - ω -perfluoro-C6-20-alkyl)	118400-71-8	1/1/20
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-	2043-54-1	1/1/20
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-	27619-91-6	1/1/20
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-	865-86-1	1/1/20
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-	65104-65-6	1/1/20
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	65636-35-3	1/1/20
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)	56773-42-3	1/1/20
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	182176-52-9	1/1/20

Ethanol, 2,2'-iminobis-, compd. with α -fluoro- ω -[2-(phosphonooxy)ethyl]poly(difluoromethylene) (1:1)	65530-74-7	1/1/20
Ethanol, 2,2'-iminobis-, compd. with α -fluoro- ω -[2-(phosphonooxy)ethyl]poly(difluoromethylene) (2:1)	65530-63-4	1/1/20
Ethanol, 2,2'-iminobis-, compd. with α,α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoropoly(difluoromethylene)] (1:1)	65530-64-5	1/1/20
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide	1691-99-2	1/1/20
2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate	423-82-5	1/1/20
2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl methacrylate	376-14-7	1/1/20
Fatty acids, C6-18, perfluoro, ammonium salts	72623-77-9	1/1/20
Fatty acids, C7-13, perfluoro, ammonium salts	72968-38-8	1/1/20
Fatty acids, linseed-oil, γ - ω -perfluoro-C8-14-alkyl esters	178535-23-4	1/1/20
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7	1/1/20
Glycine, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl-, potassium salt	55910-10-6	1/1/20
Glycine, N-ethyl-N-[(pentadecafluoroheptyl)sulfonyl]-, potassium salt	67584-62-7	1/1/20
Glycine, N-ethyl-N-[(tridecafluorohexyl)sulfonyl]-, potassium salt	67584-53-6	1/1/20
Glycine, N-ethyl-N-[(undecafluoropentyl)sulfonyl]-, potassium salt	67584-52-5	1/1/20
3-[[[(Heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-1-propanaminium iodide	1652-63-7	1/1/20
2-[[[(Heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate	25268-77-3	1/1/20
1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-	68555-76-0	1/1/20
1-Heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-	68957-62-0	1/1/20
1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, ammonium salt	68259-07-4	1/1/20
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	1/1/20
1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, potassium salt	60270-55-5	1/1/20
1-Heptanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-	335-71-7	1/1/20
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-nonacosafuoro-16-iodo-	65510-55-6	1/1/20
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-nonacosafuoro-	60699-51-6	1/1/20
Hexafluoropropylene oxide dimer acid	13252-13-6	1/1/20

Hexafluoropropylene oxide dimer acid ammonium salt	62037-80-3	1/1/20
Hexane, 1,6-diisocyanato-, homopolymer, γ - ω -perfluoro-C6-20-alc.-blocked	135228-60-3	1/1/20
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-	68555-75-9	1/1/20
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt	68259-08-5	1/1/20
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt	3871-99-6	1/1/20
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)	70225-16-0	1/1/20
Lithium (perfluorooctane)sulfonate	29457-72-5	1/1/20
Methyl perfluorooctanoate	376-27-2	1/1/20
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	17202-41-4	1/1/20
Octadecanoic acid, pentatriacontafuoro-	16517-11-6	1/1/20
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-tritriacontafuoro-	65104-67-8	1/1/20
1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-	31506-32-8	1/1/20
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-	24448-09-7	1/1/20
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)-	2263-09-4	1/1/20
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]-	61660-12-6	1/1/20
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	178094-69-4	1/1/20
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	67969-69-1	1/1/20
1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt	29081-56-9	1/1/20
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)	70225-14-8	1/1/20
Octanoyl fluoride, pentadecafluoro-	335-66-0	1/1/20
1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-	68555-74-8	1/1/20
1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, potassium salt	3872-25-1	1/1/20
1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, ammonium salt	68259-09-6	1/1/20
1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-17-1	1/1/20
Pentanoic acid, 4,4-bis[(γ - ω -perfluoro-C8-20-alkyl)thio] derivs.	71608-60-1	1/1/20

Perfluorodecanoic acid	335-76-2	1/1/20
Perfluorododecanoic acid	307-55-1	1/1/20
Perfluorohexanesulfonic acid	355-46-4	1/1/20
Perfluorononanoic acid	375-95-1	1/1/20
Perfluorooctane sulfonic acid	1763-23-1	1/1/20
Perfluorooctanoic acid	335-67-1	1/1/20
Perfluorooctyl Ethylene	21652-58-4	1/1/20
Perfluorooctylsulfonyl fluoride	307-35-7	1/1/20
Perfluoropalmitic acid	67905-19-5	1/1/20
Perfluorotetradecanoic acid	376-06-7	1/1/20
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	68412-69-1	1/1/20
Phosphonic acid, perfluoro-C6-12-alkyl derivs.	68412-68-0	1/1/20
Phosphoric acid, γ - ω -perfluoro-C8-16-alkyl esters, compds. with diethanolamine	74499-44-8	1/1/20
Poly(difluoromethylene), α -[2-(acetyloxy)-3-[(carboxymethyl)dimethylammonio]propyl]- ω -fluoro-, inner salt	123171-68-6	1/1/20
Poly(difluoromethylene), α -[2-[(2-carboxyethyl)thio]ethyl]- ω -fluoro-	65530-83-8	1/1/20
Poly(difluoromethylene), α -[2-[(2-carboxyethyl)thio]ethyl]- ω -fluoro-, lithium salt	65530-69-0	1/1/20
Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate	65605-56-3	1/1/20
Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, hydrogen 2-hydroxy-1,2,3-propanetricarboxylate	65605-57-4	1/1/20
Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, 2-hydroxy-1,2,3-propanetricarboxylate (3:1)	65530-59-8	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-	65530-66-7	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-[(1-oxo-2-propenyl)oxy]ethyl]-, homopolymer	65605-73-4	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-[(1-oxooctadecyl)oxy]ethyl]-	65530-65-6	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-	65530-61-2	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, ammonium salt	95144-12-0	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, diammonium salt	65530-72-5	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, monoammonium salt	65530-71-4	1/1/20
Poly(difluoromethylene), α -fluoro- ω -[2-sulphoethyl]-	80010-37-3	1/1/20
Poly(difluoromethylene), α, α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoro-	65530-62-3	1/1/20
Poly(difluoromethylene), α, α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoro-, ammonium salt	65530-70-3	1/1/20
Poly(oxy-1,2-ethanediyl), α -[2-	56372-23-7	1/1/20

[ethyl](tridecafluorohexyl)sulfonylamino]ethyl]- ω -hydroxy-		
Poly(oxy-1,2-ethanediyl), α -[2-[ethyl](heptadecafluorooctyl)sulfonylamino]ethyl]- ω -hydroxy-	29117-08-6	1/1/20
Poly(oxy-1,2-ethanediyl), α -[2-[ethyl](pentadecafluoroheptyl)sulfonylamino]ethyl]- ω -methoxy-	68958-60-1	1/1/20
Poly(oxy-1,2-ethanediyl), α -[2-[ethyl](heptadecafluorooctyl)sulfonylamino]ethyl]- ω -methoxy-	68958-61-2	1/1/20
Poly(oxy-1,2-ethanediyl), α -[2-[ethyl](undecafluoropentyl)sulfonylamino]ethyl]- ω -hydroxy-	68298-80-6	1/1/20
Poly(oxy-1,2-ethanediyl), α -[2-[ethyl](pentadecafluoroheptyl)sulfonylamino]ethyl]- ω -hydroxy-	68298-81-7	1/1/20
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, ether with α -fluoro- ω -(2-hydroxyethyl)poly(difluoromethylene) (1:1)	65545-80-4	1/1/20
Poly(oxy-1,2-ethanediyl), α -methyl- ω -hydroxy-, 2-hydroxy-3-[(γ - ω -perfluoro-C6-20-alkyl)thio]propyl ethers	70983-59-4	1/1/20
Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl](heptadecafluorooctyl)sulfonylamino]ethyl]- ω -hydroxy-	37338-48-0	1/1/20
Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl](pentadecafluoroheptyl)sulfonylamino]ethyl]- ω -hydroxy-	68259-39-2	1/1/20
Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl](tridecafluorohexyl)sulfonylamino]ethyl]- ω -hydroxy-	68259-38-1	1/1/20
Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl](undecafluoropentyl)sulfonylamino]ethyl]- ω -hydroxy-	68310-17-8	1/1/20
Potassium perfluorooctanesulfonate	2795-39-3	1/1/20
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-[2-[(γ - ω -perfluoro-C4-20-alkyl)thio]acetyl] derivs., inner salts	1078715-61-3	1/1/20
1-Propanaminium, 3-[(heptadecafluorooctyl)sulfonylamino]-N,N,N-trimethyl-, chloride	38006-74-5	1/1/20
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[(γ - ω -perfluoro-C6-20-alkyl)thio] derivs., chlorides	70983-60-7	1/1/20
1-Propanaminium, N,N,N-trimethyl-3-[(tridecafluorohexyl)sulfonylamino]-, chloride	52166-82-2	1/1/20
1-Propanaminium, N,N,N-trimethyl-3-[(pentadecafluoroheptyl)sulfonylamino]-, iodide	67584-58-1	1/1/20
1-Propanaminium, N,N,N-trimethyl-3-[(pentadecafluoroheptyl)sulfonylamino]-, chloride	68555-81-7	1/1/20
1-Propanaminium, N,N,N-trimethyl-3-[(tridecafluorohexyl)sulfonylamino]-, iodide	68957-58-4	1/1/20
1-Propanaminium, N,N,N-trimethyl-3-[(undecafluoropentyl)sulfonylamino]-, chloride	68957-55-1	1/1/20
1-Propanaminium, N,N,N-trimethyl-3-[(undecafluoropentyl)sulfonylamino]-, iodide	68957-57-3	1/1/20
Propanedioic acid, mono(γ - ω -perfluoro-C8-12-alkyl) derivs., bis[4-(ethenyloxy)butyl] esters	238420-80-9	1/1/20
Propanedioic acid, mono(γ - ω -perfluoro-C8-12-alkyl) derivs., di-me esters	238420-68-3	1/1/20

1,3-Propanediol, 2,2-bis[[$(\gamma$ - ω -perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts	148240-89-5	1/1/20
1,3-Propanediol, 2,2-bis[[$(\gamma$ - ω -perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates, ammonium salts	148240-85-1	1/1/20
1,3-Propanediol, 2,2-bis[[$(\gamma$ - ω -perfluoro-C6-12-alkyl)thio]methyl] derivs., phosphates, ammonium salts	148240-87-3	1/1/20
1,3-Propanediol, 2,2-bis[[$(\gamma$ - ω -perfluoro-C6-12-alkyl)thio]methyl] derivs., polymers with 2,2-bis[[$(\gamma$ - 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]	1078142-10-5	1/1/20
1-Propanesulfonic acid, 2-methyl-, 2-[[1-oxo-3-[(γ - ω -perfluoro-C4-16-alkyl)thio]propyl]amino] derivs., sodium salts	68187-47-3	1/1/20
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	68227-96-3	1/1/20
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	68298-62-4	1/1/20
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)	65605-58-5	1/1/20
2-Propenoic acid, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester	59071-10-2	1/1/20
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)	68867-60-7	1/1/20
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester,	150135-57-2	1/1/20

polymers with Bu acrylate, γ - ω -perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate, 2,2'-azobis[2,4-dimethylpentanenitrile]-initiated		
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with γ - ω -perfluoro-C10-16-alkyl acrylate and vinyl acetate, acetates	196316-34-4	1/1/20
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	65605-59-6	1/1/20
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	68239-43-0	1/1/20
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	68555-91-9	1/1/20
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	2144-54-9	1/1/20
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	1996-88-9	1/1/20
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-nonacosafuorohexadecyl ester	4980-53-4	1/1/20
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-pentacosafuorotetradecyl 2-propenoate	142636-88-2	1/1/20
2-Propenoic acid, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester	68084-62-8	1/1/20
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-pentacosafuorotetradecyl ester	6014-75-1	1/1/20
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-	200513-42-4	1/1/20

propenoate and methyl 2-methyl-2-propenoate		
2-Propenoic acid, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-57-0	1/1/20
2-Propenoic acid, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl ester	67584-56-9	1/1/20
Pyridinium, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-, salt with 4-methylbenzenesulfonic acid (1:1)	61798-68-3	1/1/20
Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)trimethoxy-	83048-65-1	1/1/20
Silane, trichloro(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-	78560-44-8	1/1/20
Silicic acid (H ₄ SiO ₄), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-1-decanol	125476-71-3	1/1/20
Siloxanes and Silicones, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy Me, hydroxy Me, Me octyl, ethers with polyethylene glycol mono-Me ether	143372-54-7	1/1/20
Sodium perfluorooctanoate	335-95-5	1/1/20
Sulfluramid	4151-50-2	1/1/20
Sulfonic acids, C6-12-alkane, γ - ω -perfluoro, ammonium salts	180582-79-0	1/1/20
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-pentacosafuoro-14-iodo-	30046-31-2	1/1/20
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-pentacosafuoro-	68758-57-6	1/1/20
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-pentacosafuoro-	39239-77-5	1/1/20
1,1,2,2-Tetrahydroperfluorodecyl acrylate	27905-45-9	1/1/20
1,1,2,2-Tetrahydroperfluorododecyl acrylate	17741-60-5	1/1/20
1,1,2,2-Tetrahydroperfluorohexadecyl acrylate	34362-49-7	1/1/20
1,1,2,2-Tetrahydroperfluorotetradecyl acrylate	34395-24-9	1/1/20
Thiocyanic acid, γ - ω -perfluoro-C4-20-alkyl esters	97553-95-2	1/1/20
Thiols, C4-10, γ - ω -perfluoro	68140-18-1	1/1/20
Thiols, C4-20, γ - ω -perfluoro, telomers with acrylamide and acrylic acid, sodium salts	1078712-88-5	1/1/20
Thiols, C6-12, γ - ω -perfluoro	68140-20-5	1/1/20
Thiols, C8-20, γ - ω -perfluoro, telomers with acrylamide	70969-47-0	1/1/20
Thiols, C10-20, γ - ω -perfluoro	68140-21-6	1/1/20

(e) Per- and polyfluoroalkyl substances CAS number listing.

Table 5 to Paragraph (e)

CAS No.	Chemical Name	Effective Date
307-35-7	Perfluorooctylsulfonyl fluoride	1/1/20
307-55-1	Perfluorododecanoic acid	1/1/20
335-66-0	Octanoyl fluoride, pentadecafluoro-	1/1/20
335-67-1	Perfluorooctanoic acid	1/1/20
335-71-7	1-Heptanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-	1/1/20
335-76-2	Perfluorodecanoic acid	1/1/20
335-95-5	Sodium perfluorooctanoate	1/1/20
355-46-4	Perfluorohexanesulfonic acid	1/1/20
375-95-1	Perfluorononanoic acid	1/1/20
376-06-7	Perfluorotetradecanoic acid	1/1/20
376-14-7	2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl methacrylate	1/1/20
376-27-2	Methyl perfluorooctanoate	1/1/20
383-07-3	2-[Butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate	1/1/20
423-82-5	2-[Ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl acrylate	1/1/20
678-39-7	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	1/1/20
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-heneicosafuoro-	1/1/20
1652-63-7	3-[[[(Heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-1-propanaminium iodide	1/1/20
1691-99-2	N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide	1/1/20
1763-23-1	Perfluorooctane sulfonic acid	1/1/20
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	1/1/20
2043-53-0	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-	1/1/20
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-heneicosafuoro-12-iodo-	1/1/20
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-heneicosafuorododecyl ester	1/1/20
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)-	1/1/20
2795-39-3	Potassium perfluorooctanesulfonate	1/1/20
2991-51-7	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	1/1/20
3107-18-4	Cyclohexanesulfonic acid, undecafluoro-, potassium salt	1/1/20
3825-26-1	Ammonium perfluorooctanoate	1/1/20
3871-99-6	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt	1/1/20
3872-25-1	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, potassium salt	1/1/20
4151-50-2	Sulfluramid	1/1/20

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	1/1/20
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- pentacosafuorotetradecyl ester	1/1/20
13252-13-6	Hexafluoropropylene oxide dimer acid	1/1/20
16517-11-6	Octadecanoic acid, pentatriacontafluoro-	1/1/20
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	1/1/20
17741-60-5	1,1,2,2-Tetrahydroperfluorododecyl acrylate	1/1/20
21652-58-4	Perfluorooctyl Ethylene	1/1/20
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-	1/1/20
25268-77-3	2-[[[(Heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate	1/1/20
27619-90-5	1-Decanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-	1/1/20
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-heneicosafuoro-	1/1/20
27905-45-9	1,1,2,2-Tetrahydroperfluorodecyl acrylate	1/1/20
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	1/1/20
29117-08-6	Poly(oxy-1,2-ethanediyl), α -[2- [ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
29457-72-5	Lithium (perfluorooctane)sulfonate	1/1/20
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- pentacosafuoro-14-iodo-	1/1/20
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-	1/1/20
34362-49-7	1,1,2,2-Tetrahydroperfluorohexadecyl acrylate	1/1/20
34395-24-9	1,1,2,2-Tetrahydroperfluorotetradecyl acrylate	1/1/20
37338-48-0	Poly[oxy(methyl-1,2-ethanediyl)], α -[2- [ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
38006-74-5	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulfonyl]amino]- N,N,N-trimethyl-, chloride	1/1/20
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- pentacosafuoro-	1/1/20
52166-82-2	1-Propanaminium, N,N,N-trimethyl-3- [[[(tridecafluorohexyl)sulfonyl]amino]-, chloride	1/1/20
55910-10-6	Glycine, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl-, potassium salt	1/1/20
56372-23-7	Poly(oxy-1,2-ethanediyl), α -[2- [ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
56773-42-3	Ethanaminium, N,N,N-triethyl-, salt with	1/1/20

	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	1/1/20
60270-55-5	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, potassium salt	1/1/20
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-nonacosafuoro-	1/1/20
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]-	1/1/20
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)	1/1/20
62037-80-3	Hexafluoropropylene oxide dimer acid ammonium salt	1/1/20
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-	1/1/20
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-	1/1/20
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-nonacosafuoro-16-iodo-	1/1/20
65530-59-8	Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, 2-hydroxy-1,2,3-propanetricarboxylate (3:1)	1/1/20
65530-61-2	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-	1/1/20
65530-62-3	Poly(difluoromethylene), α,α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoro-	1/1/20
65530-63-4	Ethanol, 2,2'-iminobis-, compd. with α -fluoro- ω -[2-(phosphonooxy)ethyl]poly(difluoromethylene) (2:1)	1/1/20
65530-64-5	Ethanol, 2,2'-iminobis-, compd. with α,α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoropoly(difluoromethylene)] (1:1)	1/1/20
65530-65-6	Poly(difluoromethylene), α -fluoro- ω -[2-[(1-oxooctadecyl)oxy]ethyl]-	1/1/20
65530-66-7	Poly(difluoromethylene), α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-	1/1/20
65530-69-0	Poly(difluoromethylene), α -[2-[(2-carboxyethyl)thio]ethyl]- ω -fluoro-, lithium salt	1/1/20
65530-70-3	Poly(difluoromethylene), α,α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoro-, ammonium salt	1/1/20
65530-71-4	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, monoammonium salt	1/1/20
65530-72-5	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, diammonium salt	1/1/20
65530-74-7	Ethanol, 2,2'-iminobis-, compd. with α -fluoro- ω -[2-	1/1/20

	(phosphonooxy)ethyl]poly(difluoromethylene) (1:1)	
65530-83-8	Poly(difluoromethylene), α -[2-[(2-carboxyethyl)thio]ethyl]- ω -fluoro-	1/1/20
65545-80-4	Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, ether with α -fluoro- ω -(2-hydroxyethyl)poly(difluoromethylene) (1:1)	1/1/20
65605-56-3	Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate	1/1/20
65605-57-4	Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, hydrogen 2-hydroxy-1,2,3-propanetricarboxylate	1/1/20
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)	1/1/20
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	1/1/20
65605-73-4	Poly(difluoromethylene), α -fluoro- ω -[2-[(1-oxo-2-propenyl)oxy]ethyl]-, homopolymer	1/1/20
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	1/1/20
67584-42-3	Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt	1/1/20
67584-52-5	Glycine, N-ethyl-N-[(undecafluoropentyl)sulfonyl]-, potassium salt	1/1/20
67584-53-6	Glycine, N-ethyl-N-[(tridecafluorohexyl)sulfonyl]-, potassium salt	1/1/20
67584-56-9	2-Propenoic acid, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl ester	1/1/20
67584-57-0	2-Propenoic acid, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl ester	1/1/20
67584-58-1	1-Propanaminium, N,N,N-trimethyl-3-[[[pentadecafluoroheptyl)sulfonyl]amino]-, iodide	1/1/20
67584-62-7	Glycine, N-ethyl-N-[(pentadecafluoroheptyl)sulfonyl]-, potassium salt	1/1/20
67905-19-5	Perfluoropalmitic acid	1/1/20
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	1/1/20
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	1/1/20
68084-62-8	2-Propenoic acid, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester	1/1/20
68140-18-1	Thiols, C4-10, γ - ω -perfluoro	1/1/20
68140-20-5	Thiols, C6-12, γ - ω -perfluoro	1/1/20
68140-21-6	Thiols, C10-20, γ - ω -perfluoro	1/1/20
68141-02-6	Chromium(III) perfluorooctanoate	1/1/20

68156-01-4	Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt	1/1/20
68156-07-0	Cyclohexanesulfonic acid, decafluoro(trifluoromethyl)-, potassium salt	1/1/20
68187-25-7	Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(γ - ω -perfluoro-C6-20-alkyl)thio] derivs.	1/1/20
68187-47-3	1-Propanesulfonic acid, 2-methyl-, 2-[[1-oxo-3-[(γ - ω -perfluoro-C4-16-alkyl)thio]propyl]amino] derivs., sodium salts	1/1/20
68188-12-5	Alkyl iodides, C4-20, γ - ω -perfluoro	1/1/20
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	1/1/20
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	1/1/20
68259-07-4	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, ammonium salt	1/1/20
68259-08-5	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt	1/1/20
68259-09-6	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, ammonium salt	1/1/20
68259-38-1	Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
68259-39-2	Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
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	1/1/20
68298-80-6	Poly(oxy-1,2-ethanediyl), α -[2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
68298-81-7	Poly(oxy-1,2-ethanediyl), α -[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
68310-17-8	Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]- ω -hydroxy-	1/1/20
68391-08-2	Alcohols, C8-14, γ - ω -perfluoro	1/1/20

68412-68-0	Phosphonic acid, perfluoro-C6-12-alkyl derivs.	1/1/20
68412-69-1	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	1/1/20
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	1/1/20
68555-74-8	1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-	1/1/20
68555-75-9	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-	1/1/20
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-	1/1/20
68555-81-7	1-Propanaminium, N,N,N-trimethyl-3-[[pentadecafluoroheptyl)sulfonyl]amino]-, chloride	1/1/20
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	1/1/20
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-pentacosafuoro-	1/1/20
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)	1/1/20
68957-55-1	1-Propanaminium, N,N,N-trimethyl-3-[[undecafluoropentyl)sulfonyl]amino]-, chloride	1/1/20
68957-57-3	1-Propanaminium, N,N,N-trimethyl-3-[[undecafluoropentyl)sulfonyl]amino]-, iodide	1/1/20
68957-58-4	1-Propanaminium, N,N,N-trimethyl-3-[[tridecafluorohexyl)sulfonyl]amino]-, iodide	1/1/20
68957-62-0	1-Heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-	1/1/20
68958-60-1	Poly(oxy-1,2-ethanediyl), α -[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]- ω -methoxy-	1/1/20
68958-61-2	Poly(oxy-1,2-ethanediyl), α -[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]- ω -methoxy-	1/1/20

70225-14-8	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	1/1/20
70225-15-9	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	1/1/20
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)	1/1/20
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)	1/1/20
70969-47-0	Thiols, C8-20, γ - ω -perfluoro, telomers with acrylamide	1/1/20
70983-59-4	Poly(oxy-1,2-ethanediyl), α -methyl- ω -hydroxy-, 2-hydroxy-3-[(γ - ω -perfluoro-C6-20-alkyl)thio]propyl ethers	1/1/20
70983-60-7	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[(γ - ω -perfluoro-C6-20-alkyl)thio] derivs., chlorides	1/1/20
71608-60-1	Pentanoic acid, 4,4-bis[(γ - ω -perfluoro-C8-20-alkyl)thio] derivs.	1/1/20
72623-77-9	Fatty acids, C6-18, perfluoro, ammonium salts	1/1/20
72968-38-8	Fatty acids, C7-13, perfluoro, ammonium salts	1/1/20
74499-44-8	Phosphoric acid, γ - ω -perfluoro-C8-16-alkyl esters, compds. with diethanolamine	1/1/20
78560-44-8	Silane, trichloro(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-	1/1/20
80010-37-3	Poly(difluoromethylene), α -fluoro- ω -[2-sulphoethyl]-	1/1/20
83048-65-1	Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)trimethoxy-	1/1/20
95144-12-0	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, ammonium salt	1/1/20
97553-95-2	Thiocyanic acid, γ - ω -perfluoro-C4-20-alkyl esters	1/1/20
97659-47-7	Alkenes, C8-14 α -, δ - ω -perfluoro	1/1/20
118400-71-8	Disulfides, bis(γ - ω -perfluoro-C6-20-alkyl)	1/1/20
123171-68-6	Poly(difluoromethylene), α -[2-(acetyloxy)-3-[(carboxymethyl)dimethylammonio]propyl]- ω -fluoro-, inner salt	1/1/20
125476-71-3	Silicic acid (H ₄ SiO ₄), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-1-decanol	1/1/20
135228-60-3	Hexane, 1,6-diisocyanato-, homopolymer, γ - ω -perfluoro-C6-20-alc.-blocked	1/1/20
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-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 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-pentacosafuorotetradecyl 2-propenoate	1/1/20
143372-54-7	Siloxanes and Silicones, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy Me, hydroxy Me, Me octyl, ethers with polyethylene glycol mono-Me ether	1/1/20
148240-85-1	1,3-Propanediol, 2,2-bis[(γ - ω -perfluoro-C4-10-alkyl)thio]methyl]	1/1/20

	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	1/1/20
148240-89-5	1,3-Propanediol, 2,2-bis[(γ - ω -perfluoro-C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts	1/1/20
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	1/1/20
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-heptafluoro-, potassium salt	1/1/20
178535-23-4	Fatty acids, linseed-oil, γ - ω -perfluoro-C8-14-alkyl esters	1/1/20
180582-79-0	Sulfonic acids, C6-12-alkane, γ - ω -perfluoro, ammonium salts	1/1/20
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-heptafluorodecyl thiocyanate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl thiocyanate	1/1/20
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	1/1/20
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-heptafluorodecyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate	1/1/20
238420-68-3	Propanedioic acid, mono(γ - ω -perfluoro-C8-12-alkyl) derivs., di-m esters	1/1/20
238420-80-9	Propanedioic acid, mono(γ - ω -perfluoro-C8-12-alkyl) derivs., bis[4-(ethenyloxy)butyl] esters	1/1/20
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]	1/1/20
1078712-88-5	Thiols, C4-20, γ - ω -perfluoro, telomers with acrylamide and acrylic acid, sodium salts	1/1/20
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	1/1/20

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