

7019.3110 AIR TOXICS EMISSION INVENTORY AND EMISSIONS REPORTING.

Subpart 1. **Inventory required.** An owner or operator of an air toxics reporting facility, as defined in part 7005.0100, subpart 2d, must include the air toxics emissions under subpart 2 in the annual air toxics emission inventory according to part 7019.3000.

Subp. 2. **Air toxics to be reported.**

A. An owner or operator of an air toxics reporting facility must include HAPs as defined in part 7007.0100, subpart 12a.

B. An owner or operator of an air toxics reporting facility must include PFAS as defined in Minnesota Statutes, section 116.943, subdivision 1, paragraph (p), that are listed on the TRI list defined in part 7005.0100. An owner or operator must also include the following PFAS:

Chemical Abstracts Service (CAS) number	Pollutant
(1) 375-61-1	1,1,1,2,2,3,3,4,4,5,5-Undecafluoropentane
(2) 811-97-2	1,1,1,2-Tetrafluoroethane
(3) 420-46-2	1,1,1-Trifluoroethane
(4) 209482-18-8	1-(4-Butoxynaphthyl)tetrahydrothiophenium perfluorobutanesulfonate
(5) 120226-60-0	10:2 Fluorotelomer sulfonic acid
(6) 763051-92-9	11-Chloroperfluoro-3-oxaundecanesulfonic acid
(7) 2252-84-8	1H-Heptafluoropropane
(8) 375-17-7	1H-Nonafluorobutane
(9) 355-37-3	1H-Perfluorohexane
(10) 375-83-7	1-Hydroperfluoroheptane
(11) 2991-50-6	2-(N-Ethylperfluorooctanesulfonamido)acetic acid
(12) 2355-31-9	2-(N-Methylperfluorooctanesulfonamido)acetic acid
(13) 53826-13-4	2-(Perfluorodecyl)ethanoic acid
(14) 53826-12-3	2-(Perfluorohexyl)ethanoic acid
(15) 27854-31-5	2-(Perfluorooctyl)ethanoic acid
(16) 359-49-9	2,3,3,3-Tetrafluoropropanoic acid
(17) 914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid

(18) 70887-84-2	2H-Perfluoro-2-decenoic acid
(19) 3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane
(20) 812-70-4	3-(Perfluoroheptyl)propanoic acid
(21) 70887-88-6	3-(Perfluoropentyl)-3-fluoro-2-propenoic acid
(22) 356-02-5	3:3 Fluorotelomer carboxylic acid
(23) 919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid
(24) 27619-93-8	4:2 Fluorotelomer sulfonate sodium
(25) 757124-72-4	4:2 Fluorotelomer sulfonic acid
(26) 27619-94-9	6:2 Fluorotelomer sulfonate sodium salt
(27) 27619-97-2	6:2 Fluorotelomer sulfonic acid
(28) 27619-96-1	8:2 Fluorotelomer sulfonate sodium salt
(29) 39108-34-4	8:2 Fluorotelomer sulfonic acid
(30) 335-65-9	8H-Perfluorooctane
(31) 1478-61-1	Bisphenol AF
(32) 75-73-0	Carbon tetrafluoride
(33) 75-45-6	Chlorodifluoromethane
(34) 75-72-9	Chlorotrifluoromethane
(35) 75-10-5	Difluoromethane
(36) 593-53-3	Fluoromethane
(37) 116-15-4	Hexafluoropropene
(38) 115-25-3	Octafluorocyclobutane
(39) 559-40-0	Octafluorocyclopentene
(40) 354-33-6	Pentafluoroethane
(41) 678-26-2	Perflenapent
(42) 756426-58-1	Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic acid)
(43) 863090-89-5	Perfluoro(4-methoxybutanoic acid)
(44) 428-59-1	Perfluoro(methyloxirane)

(45) 113507-82-7	Perfluoro-2-ethoxyethanesulfonic acid
(46) 3330-15-2	Perfluoro-3-(1H-perfluoroethoxy)propane
(47) 151772-58-6	Perfluoro-3,6-dioxaheptanoic acid
(48) 377-73-1	Perfluoro-3-methoxypropanoic acid
(49) 355-25-9	Perfluorobutane
(50) 335-77-3	Perfluorodecanesulfonic acid
(51) 79780-39-5	Perfluorododecanesulfonic acid
(52) 76-16-4	Perfluoroethane
(53) 335-57-9	Perfluoroheptane
(54) 375-92-8	Perfluoroheptanesulfonic acid
(55) 375-85-9	Perfluoroheptanoic acid
(56) 355-42-0	Perfluorohexane
(57) 68259-12-1	Perfluorononanesulfonic acid
(58) 307-34-6	Perfluorooctane
(59) 754-91-6	Perfluorooctanesulfonamide
(60) 2706-91-4	Perfluoropentanesulfonic acid
(61) 2706-90-3	Perfluoropentanoic acid
(62) 76-19-7	Perfluoropropane
(63) 365971-87-5	Perfluorotetradecanoate
(64) 72629-94-8	Perfluorotridecanoic acid
(65) 2058-94-8	Perfluoroundecanoic acid,
(66) 83329-89-9	Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate
(67) 335-24-0	Potassium perfluoro-4-ethylcyclohexanesulfonate
(68) 2923-16-2	Potassium trifluoroacetate
(69) 2250081-67-3	Sodium 4,8-dioxa-3H-perfluorononanoate
(70) 2806-15-7	Sodium perfluorodecanesulfonate
(71) 1260224-54-1	Sodium perfluorododecanesulfonate

(72) 21934-50-9	Sodium perfluoroheptanesulfonate
(73) 4021-47-0	Sodium perfluorooctanesulfonate
(74) 116-14-3	Tetrafluoroethylene
(75) 75-69-4	Trichlorofluoromethane
(76) 75-46-7	Trifluoromethane
(77) 1493-13-6	Trifluoromethanesulfonic acid
(78) 144317-44-2	Triphenylsulfonium nonafluorobutanesulfonate

C. An owner or operator of an air toxics reporting facility must include the air toxics included in subitems (1) to (66). For all pollutant names that contain the word "compounds," any chemical substance that contains the named chemical as part of that chemical's infrastructure is included.

Chemical Abstracts Service (CAS) number	Pollutant
(1) 540-59-0	1,2-Dichloroethylene
(2) 5131-66-8	1-Butoxy-2-propanol
(3) 563-47-3	3-Chloro-2-methyl-1-propene
(4) 67-64-1	Acetone
(5)	Aldehyde
(6) 309-00-2	Aldrin
(7)	Aluminum compounds
(8) 140-57-8	Aramite
(9) 12674-11-2	Aroclor 1016
(10) 12672-29-6	Aroclor 1248
(11) 11097-69-1	Aroclor 1254
(12) 1912-24-9	Atrazine
(13) 103-33-3	Azobenzene
(14) 100-52-7	Benzaldehyde
(15) 108-86-1	Bromobenzene
(16) 85-68-7	Benzyl butyl phthalate

(17) 105-60-2	Caprolactam
(18) 1306-38-3	Ceric oxide
(19) 12789-03-6	Technical chlordane
(20) 10049-04-4	Chlorine dioxide
(21) 75-68-3	1-Chloro-1,1-difluoroethane
(22) 75-45-6	Chlorodifluoromethane
(23) 10061-01-5	(Z)-Dichloropropene
(24)	Copper compounds
(25) 123-73-9	(E)-Crotonaldehyde
(26) 110-82-7	Cyclohexane
(27) 25321-22-6	Dichlorobenzene
(28) 95-50-1	1,2-Dichlorobenzene
(29) 541-73-1	1,3-Dichlorobenzene
(30) 75-71-8	Dichlorodifluoromethane
(31) 50-29-3	DDT
(32) 156-59-2	(Z)-1,2-Dichloroethylene
(33) 156-60-5	(E)-1,2-Dichloroethylene
(34) 77-73-6	Dicyclopentadiene
(35) 117-84-0	Di-n-octyl phthalate
(36) 637-92-3	Ethyl t-butyl ether
(37) 111-76-2	2-Butoxyethanol
(38) 64-18-6	Formic acid
(39) 591-78-6	2-Hexanone
(40) 7783-06-4	Hydrogen sulfide
(41) 1318-09-8	Amphibole-group minerals
(42) 78-93-3	Methyl ethyl ketone
(43) 2385-85-5	Mirex
(44) 71-36-3	1-Butanol

(45) 123-72-8	Butyraldehyde
(46) 7697-37-2	Nitric acid
(47) 55-18-5	N-Nitroso-diethylamine
(48) 924-16-3	N-Nitroso-di-butylamine
(49) 930-55-2	N-Nitroso-pyrrolidine
(50) 40487-42-1	Pendimethalin
(51) 115-07-1	1-Propene
(52) 107-98-2	1-Methoxy-2-propanol
(53) 7631-86-9	Silica
(54) 7664-93-9	Sulfuric acid
(55) 540-88-5	tert-Butyl acetate
(56) 75-65-0	tert-Butyl alcohol
(57) 109-99-9	Tetrahydrofuran
(58) 62-56-6	Thiourea
(59) 26471-62-5	Toluene diisocyanate
(60) 10061-02-6	trans-1,3-Dichloropropene
(61) 96-18-4	1,2,3-Trichloropropane
(62) 526-73-8	1,2,3-Trimethylbenzene
(63) 95-63-6	1,2,4-Trimethylbenzene
(64) 108-67-8	1,3,5-Trimethylbenzene,
(65)	Vanadium compounds
(66)	Zinc compounds

Subp. 3. De minimis reporting; exceptions.

A. For facilities calculating and reporting using material balance according to part 7019.3060 or 7019.3065 and except as provided in item B, if a toxic chemical is present in a mixture of chemicals at an air toxics reporting facility and the toxic chemical is in a concentration in the mixture that is below one percent of the mixture according to the safety data sheet (SDS) or is below 0.1 percent of the mixture in the case of a toxic chemical that is a carcinogen or potential carcinogen, an owner or operator is not required to consider the quantity of the toxic chemical present in such

mixture when calculating and reporting emissions. The sources listed in subitems (1) to (3) establish a chemical as a carcinogen or potential carcinogen and are incorporated by reference.

(1) *Report on Carcinogens*, National Toxicology Program, United States Department of Health and Human Services (15th edition and subsequent editions). The report is not subject to frequent change and is available on the website of the National Institute of Environmental Health Sciences (<https://www.niehs.nih.gov>);

(2) *IARC Monographs on the Identification of Carcinogenic Hazards to Humans*, International Agency for Research on Cancer (volumes 1 to 134 and as subsequently added). The monographs are subject to frequent change and are available on the website of the International Agency for Research on Cancer (<https://monographs.iarc.who.int/monographs-available>); or

(3) Code of Federal Regulations, title 29, part 1910, subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration.

B. An owner or operator of an air toxics reporting facility must report all emissions of the air toxics in subitems (1) to (20). The de minimis standard under item A does not apply. For all pollutant names that contain the word "compounds," any chemical substance that contains the named chemical as part of that chemical's infrastructure is included. For facilities calculating and reporting emissions using material balance according to parts 7019.3060 and 7019.3065, only pollutants listed on the SDS need to be considered. For example, if an SDS lists an air toxic in a mixture at less than 0.1 percent, the facility must use 0.1 percent to calculate and report emissions, unless a specific amount has been certified by the supplier or previously determined by an approved reference methodology as provided under part 7019.3060.

Chemical Abstracts Service (CAS) number	Pollutant
(1) 309-00-2	Aldrin
(2)	Arsenic compounds
(3)	Cadmium compounds
(4) 57-74-9	Chlordane
(5)	Chromium compounds
(6)	Cobalt compounds
(7)	Dioxins/furans
(8) 75-21-8	Ethylene oxide
(9) 76-44-8	Heptachlor
(10) 118-74-1	Hexachlorobenzene
(11)	Lead compounds

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| (12) | Mercury compounds |
| (13) 72-43-5 | Methoxychlor |
| (14) | Nickel compounds |
| (15) | Polycyclic organic matter (POMs) |
| (16) 40487-42-1 | Pendimethalin |
| (17) | PFAS under subpart 2, item B |
| (18) | Polychlorinated biphenyl (PCBs) |
| (19) 8001-35-2 | Toxaphene |
| (20) 1582-09-8 | Trifluralin |

Subp. 4. Calculating actual emissions.

A. An owner or operator of an air toxics reporting facility, except any facility permitted under part 7007.1125, registration permit option C, must calculate actual air toxics emissions using the methods in part 7019.3030, subpart 1, for the annual air toxics emission report.

B. An owner or operator of an air toxics reporting facility permitted under part 7007.1125, registration permit option C, must calculate emissions using the methods in part 7019.3020, subpart 5.

Subp. 5. Recordkeeping.

A. An owner or operator of an air toxics reporting facility must maintain records according to this subpart for five years after the date the air toxics emission inventory is submitted and must provide the records, upon request, to the commissioner.

B. An owner or operator must maintain a record of the SDS or vendor certification of air toxics content for each air-toxics-containing material purchased or used.

C. If an owner or operator assumes a reduction of air toxics emissions due to recycling or disposing of material off site, the owner or operator must keep records of the amount of disposed material, the amount of material shipped off site for recycling, and the calculations done to determine the amount to subtract. Acceptable records are the SDS, invoices, shipping papers, and hazardous waste manifests.

D. An owner or operator must maintain a record of the calculation for each air toxic emitted.

Statutory Authority: *MS s 116.062; 116.07*

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