

September 10, 2025

VIA EMAIL ONLY

Public Records Staff
Office of Minnesota Secretary of State
Veterans Services Building, Suite 210
20 West 12th Street
St. Paul, Minnesota 55155
official.documents@state.mn.us

**Re: *In the Matter of the Proposed Amendments to Rules Governing Air Quality – Air Toxics Emissions Reporting Rule*
CAH 71-9003-39354; Revisor R-4599**

Dear Public Records Staff:

Enclosed for filing is an electronic copy of the above-entitled adopted rules.

Please send the agency copy of the rules to:

Addison Otto
520 Lafayette Rd
Saint Paul, MN 55101
addison.otto@state.mn.us

If you have any questions regarding this matter, please contact William Moore at (651) 361-7893, william.t.moore@state.mn.us or via facsimile at (651) 539-0310.

Sincerely,



Nichole Sletten
Legal Assistant

Enclosures

cc: Addison Otto (via email)

Document Number: 20253440
Filed September 11, 2025
Office of the Minnesota
Secretary of State, Steve Simon

Office of the Revisor of Statutes

Administrative Rules



TITLE: Adopted Permanent Rules Relating to Air Toxics Reporting

AGENCY: Minnesota Pollution Control Agency

REVISOR ID: R-4599

MINNESOTA RULES: Chapters 7002, 7005, 7007, and 7019

INCORPORATIONS BY REFERENCE:

Part 7019.3110, subpart 3: *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>).

Part 7019.3110, subpart 3: *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>).

The attached rules are approved for
filing with the Secretary of State

Cindy K. Maxwell
Cindy K. Maxwell
Assistant Deputy Revisor

1.1 **Minnesota Pollution Control Agency**

1.2 **Adopted Permanent Rules Relating to Air Toxics Reporting**

1.3 **7002.0015 DEFINITIONS.**

1.4 *[For text of subparts 1 and 2, see Minnesota Rules]*

1.5 Subp. 2a. **Chargeable pollutant.** "Chargeable pollutant" means a pollutant that is
1.6 assessed a fee and includes the following:

1.7 *[For text of items A and B, see Minnesota Rules]*

1.8 *[For text of subparts 2b to 4, see Minnesota Rules]*

1.9 **7005.0100 DEFINITIONS.**

1.10 *[For text of subparts 1 to 2b, see Minnesota Rules]*

1.11 Subp. 2c. **Air toxics.** "Air toxics" means pollutants, except for criteria pollutants, that
1.12 are known or suspected to cause cancer or other serious health effects or adverse
1.13 environmental and ecological effects. Air toxics includes the pollutants listed under part
1.14 7019.3110, subpart 2.

1.15 Subp. 2d. **Air toxics reporting facility.** "Air toxics reporting facility" means a facility
1.16 in Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, or Washington County for which the
1.17 owner or operator of the facility must obtain an air emission permit under chapter 7007, but
1.18 does not include a facility permitted under part 7007.1120, registration permit option B.

1.19 *[For text of subparts 3 to 44a, see Minnesota Rules]*

1.20 Subp. 44b. **Toxic release inventory list.** "Toxic release inventory list" or "TRI list"
1.21 means the list of chemicals and chemical categories adopted by the Environmental Protection
1.22 Agency under Code of Federal Regulations, title 40, section 372.65, according to the federal
1.23 Emergency Planning and Community Right-to-Know Act, United States Code, title 42,
1.24 section 11023.

2.1 *[For text of subpart 45, see Minnesota Rules]*

2.2 **7007.0800 PERMIT CONTENT.**

2.3 *[For text of subparts 1 to 5, see Minnesota Rules]*

2.4 **Subp. 6. Reporting.**

2.5 *[For text of items A to E, see Minnesota Rules]*

2.6 *[For text of subparts 7 to 16, see Minnesota Rules]*

2.7 **7007.1146 CAPPED PERMIT; COMPLIANCE REQUIREMENTS.**

2.8 *[For text of subparts 1 to 4, see Minnesota Rules]*

2.9 **Subp. 5. Reporting.** An owner or operator of a source with a capped permit must
2.10 submit to the commissioner the reports described under items A to E. All reports required
2.11 under a capped permit must be certified by a responsible official consistent with part
2.12 7007.1143, subpart 1.

2.13 A. Deviation reporting time frames as described in subitems (1) and (2).

2.14 (1) For deviations that endanger human health or the environment, the
2.15 permittee must notify the commissioner as required in part 7019.1000, subpart 1.

2.16 *[For text of subitem (2), see Minnesota Rules]*

2.17 *[For text of items B to E, see Minnesota Rules]*

2.18 **7019.3000 EMISSION INVENTORY.**

2.19 **Subpart 1. Emission inventory required.**

2.20 A. All owners or operators of emission reporting facilities, as defined in part
2.21 7002.0015, subpart 3a, and air toxics reporting facilities, as defined in part 7005.0100,
2.22 subpart 2d, must submit an annual emission inventory report to the commissioner.

B. The report under item A must meet the following criteria:

(1) the owner or operator of an emission reporting facility must submit the report in a format specified by the commissioner, relating to ammonia, carbon monoxide, particulate matter, and all chargeable pollutants as defined in part 7002.0015, subpart 2a;

(2) the owner or operator of an air toxics reporting facility must submit the report in a format specified by the commissioner, relating to air toxics according to part 7019.3110;

(3) the owner or operator of an emission reporting facility or air toxics reporting facility must submit the report on or before April 1 of the year following the calendar year being reported; and

(4) the responsible official, as defined in part 7007.0100, subpart 21, must sign the report and make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision by qualified personnel. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I understand that the data provided in this document will be used by the MPCA to calculate a fee that the facility will be required to pay under Minnesota Rules, part 7002.0065, based on the tons of pollution emitted by the facility."

C. (1) All owners or operators of facilities issued option B registration permits under part 7007.1120 must submit either an emission inventory using methods described under subitem (3) and parts 7019.3020 to 7019.3100 or the certification and VOC-containing material report in subitem (2). The report must be submitted on or before April 1 following the calendar year being reported.

(2) All owners or operators that choose to be assessed a fee under part 7002.0025, subpart 1, item C, subitem (2), must submit a report and certification to the

commissioner. The responsible official, as defined in part 7007.0100, subpart 2, must sign the report and make the following certification:

"I certify under penalty of law that the facility described in registration permit number is eligible for the option B registration permit that it was issued and holds and that the facility purchased or used (as stated in the permit application) gallons of VOC-containing materials in the 12-month reporting period. I further certify that the eligibility of the facility and the quantity of material reported herein were determined under my direction or supervision by qualified personnel. The information used to determine eligibility and the quantity of material reported herein for the registration permit is, to the best of my knowledge and belief, true and accurate. I understand that the information provided in this certification will be used by the MPCA to assess a fee under Minnesota Rules, part 7002.0025, subpart 1, item C, that the facility will be required to pay under Minnesota Rules, part 7002.0065."

(3) All owners and operators that choose to be assessed a fee under part 7002.0025, subpart 1, item C, subitem (1), must submit an emission inventory report to the commissioner, in a format specified by the commissioner, relating to emissions from the use of VOC-containing materials using methods described in part 7019.3030, subpart 2, and the certification in subitem (2). The certification and emission inventory must be signed by the responsible official, as defined in part 7007.0100, subpart 2.

Subp. 2. **Owner or operator error in reporting data.** If an owner or operator discovers an error in the data after having submitted it to the commissioner, the owner or operator must submit corrected data, with a written explanation of the mistake and why it occurred. If the commissioner agrees that the correction is appropriate, the commissioner must correct the data in the inventory. However, for purposes of assessing the emission fee under part 7002.0025, the commissioner must not accept any correction submitted by an owner or operator that would result in a reduction of tons emitted if the correction is

submitted more than 45 days after the mailing date of the previous calendar year's air emissions summary.

Subp. 3. Mercury emission sources.

A. Owners or operators of a mercury emission source as defined in part 7005.0100, subpart 23b, must submit an annual emission inventory report of the mercury emissions to the commissioner in a format specified by the commissioner. The report must be submitted on or before April 1 of the year following the calendar year being reported.

B. Owners or operators of stationary sources that have air emissions of mercury but that are not mercury emission sources must report every three years.

C. Owners or operators of stationary sources that are air toxics reporting facilities must report mercury emissions as provided under part 7019.3110.

Subp. 4. Possible mercury emission sources. If the commissioner determines that a stationary source has activity levels or emission factors that indicate that the source may be a mercury emission source, the commissioner may request that the owners or operators quantify the source's mercury emissions using the methods listed in part 7019.3030, subpart 1. The owners or operators must complete the quantification and submit a report to the commissioner within 120 days of the commissioner's request.

7019.3020 CALCULATING ACTUAL EMISSIONS FOR EMISSION INVENTORY.

Subpart 1. Scope. Emissions from all emissions units must be reported in the annual emissions inventory report in a format specified by the commissioner.

Subp. 2. Insignificant activities. Emission reporting facilities and air toxics reporting facilities are not required to report emissions from insignificant activities listed in part 7007.1300 and conditionally insignificant activities listed in part 7008.4000 unless:

6.1 A. the commissioner or owner or operator has determined that emissions from
6.2 those activities are not insignificant for purposes of permitting under parts 7007.0100 to
6.3 7007.1800 or for those activities required to be quantified by a facility issued a capped
6.4 permit option 1; or

6.5 B. the commissioner requests an inventory of fugitive emissions from roads and
6.6 parking lots, defined as insignificant under part 7007.1300, subpart 3, item G, upon
6.7 determining that emissions from these sources represent a substantial portion of the facility's
6.8 total emissions.

6.9 Subp. 3. **Calculating emissions.** Except as provided in subparts 4 to 7, all owners or
6.10 operators of emission reporting facilities, as defined in part 7002.0015, subpart 3a, or
6.11 facilities issued option B registration permits under part 7007.1120 that choose to be assessed
6.12 a fee under part 7002.0025, subpart 1, item C, subitem (1), must calculate emissions based
6.13 on parts 7019.3030 to 7019.3100, except for any facility that has obtained an option A, C,
6.14 or D registration permit under part 7007.1115, 7007.1125, or 7007.1130 or a capped permit
6.15 under parts 7007.1140 to 7007.1148.

6.16 Subp. 4. **Calculating emissions for option A permits.** Owners or operators of emission
6.17 reporting facilities that hold an air emission permit under part 7007.1115, registration permit
6.18 option A, must report actual emissions calculated for the calendar year for which emissions
6.19 are being reported in a format specified by the commissioner. The owners or operators of
6.20 a facility issued an option A registration permit under part 7007.1115 must calculate
6.21 emissions for all emission units using the methods listed in parts 7019.3030 to 7019.3100.

6.22 Subp. 5. **Calculating emissions for option C permits.** All owners or operators of
6.23 emission reporting facilities that have obtained an air emission permit under part 7007.1125,
6.24 registration permit option C, must report the quantity of each fuel purchased or used
6.25 (whichever was stated in the facility's registration permit application) in the calendar year
6.26 for which emissions are being calculated. The report must apportion the quantity of fuel

7.1 burned with the type of combustion unit (indirect heating units or internal combustion
7.2 engines) that it was burned in. The owner or operator must report the quantity of
7.3 VOC-containing materials purchased or used (whichever is stated in the facility's registration
7.4 permit application) in the calendar year for which emissions are being calculated and air
7.5 toxics emissions using the method listed in part 7019.3060. The owners or operators reporting
7.6 VOC-containing materials purchases or usage must also report the weight factor (WF) of
7.7 the VOC and air toxics in the materials (weight of VOC per weight of VOC-containing
7.8 materials) and the density of the materials.

7.9 **Subp. 6. Calculating emissions for option D permits.** All owners or operators of
7.10 emission reporting facilities that have obtained an air emission permit under part 7007.1130,
7.11 registration permit option D, must report the actual emissions calculated for purposes of
7.12 compliance demonstration required in part 7007.1130, subpart 3, item E, for the calendar
7.13 year for which emissions are being reported in a format specified by the commissioner.

7.14 **Subp. 7. Calculating emissions for capped permits.** All owners or operators of
7.15 emission reporting facilities that have obtained an air emission permit under parts 7007.1140
7.16 to 7007.1148, capped permit, must report the actual emissions calculated for purposes of
7.17 compliance demonstration required in part 7007.1146, subpart 2, item H, for the calendar
7.18 year for which emissions are being reported for all emission units in a format specified by
7.19 the commissioner.

7.20 **Subp. 8. Material balance.** All owners or operators of an emission reporting facility
7.21 submitting an emission inventory based in whole, or in part, on a material balance calculation
7.22 must submit a sample material balance calculation with the emission inventory. Such facilities
7.23 must also maintain a record of the safety data sheets or vendor certification of the VOC, air
7.24 toxics, mercury, or sulfur content of the material for each material or fuel used and the
7.25 material balance calculations for five years after the date the emission inventory is submitted.

8.1 Subp. 9. **Control equipment.** An emission inventory may be based on the use of
8.2 control equipment only if the use of the specific control equipment is required under
8.3 conditions of a permit or applicable requirement as defined in part 7007.0100, subpart 7,
8.4 or is included in a notification received by the commissioner under part 7007.1150, item
8.5 C. This subpart applies upon issuance under chapter 7007 of a registration, state, capped,
8.6 general, or part 70 permit to a stationary source.

8.7 Subp. 10. **Control efficiency factors.** An owner or operator submitting the emission
8.8 inventory must apply control efficiency factors, as defined under part 7005.0100, subpart
8.9 9b, to air toxics emissions calculations according to items A and B, unless the control
8.10 efficiency factor for the pollutant is identified in the permit. The owner or operator must:

8.11 A. use the VOC control efficiency factor for volatile air toxics; and

8.12 B. use the PM10 control efficiency factor for particulate air toxics.

8.13 **7019.3030 METHOD OF CALCULATION.**

8.14 Subpart 1. **Method hierarchy.** The owner or operator of an emission reporting facility,
8.15 except one issued an option C or D registration permit under part 7007.1125 or 7007.1130
8.16 or a capped permit under parts 7007.1140 to 7007.1148, must calculate the facility's actual
8.17 emissions using the methods listed in items A to D. The owner or operator of an air toxics
8.18 reporting facility issued an option D registration permit or a capped permit must calculate
8.19 air toxics emissions for each emission unit using the methods listed in items A to D, except
8.20 that similar emission units may be aggregated. The methods are listed in a hierarchy of the
8.21 most preferred method to the least preferred method. The most preferred method available
8.22 must be used. Where more than one method is listed in the item, they are considered to be
8.23 equal in the hierarchy and any can be used:

8.24 A. part 7019.3040 (continuous emission monitor data);

8.25 B. part 7019.3050 (performance test data);

C. part 7019.3060 (VOC and air toxics material balance), 7019.3065 (mercury material balance), 7019.3070 (SO₂ material balance), 7019.3080 (emission factor), or 7019.3090 (enforceable limitations), as applicable; or

D. part 7019.3100 (facility proposal).

Subp. 2. **Option B permit fees.** The owner or operator of a facility issued an option B registration permit under part 7007.1120 that chooses to be assessed a fee under part 7002.0025, subpart 1, item C, subitem (1):

A. must calculate the facility's actual emissions using the methods listed in part 7019.3060; and

B. must not consider the effects of pollution control equipment on emissions from the use of VOC-containing materials when calculating actual emissions for an emissions inventory.

Subp. 3. **Selecting calculation method.** For purposes of selecting a calculation method, a method is considered available if the conditions associated with the method in parts 7019.3040 to 7019.3100 are met. The method described in part 7019.3100 may be used if the proposal is submitted to the commissioner by September 1 of the first calendar year for which the emissions are being calculated. The commissioner must reject data submitted using the methods described in parts 7019.3040 to 7019.3090 if the conditions for the method are not fully met.

Subp. 4. **Reporting individual pollutants.** An owner or operator of a facility must report individual pollutants to the maximum extent feasible. If the owner or operator cannot report individual pollutants within a group, such as lead compounds or nickel compounds, the owner or operator must report total emissions as a group.

10.1 **7019.3060 VOLATILE ORGANIC COMPOUND (VOC) AND AIR TOXICS**
10.2 **MATERIAL BALANCE.**

10.3 If the methods in part 7019.3040 or 7019.3050 are unavailable to the owner or operator
10.4 of an emission reporting facility or a facility issued an option B registration permit under
10.5 part 7007.1120 that chooses to be assessed a fee under part 7002.0025, subpart 1, item C,
10.6 subitem (1), the facility may calculate VOC and air toxics emissions using the material
10.7 balance method described in this part. This method may be used in conjunction with or
10.8 instead of emission factors and enforceable limitations methods described in parts 7019.3080
10.9 and 7019.3090, where applicable. A person using material balance to calculate VOC and
10.10 air toxics emissions must determine the total VOC emissions and air toxics emissions (E)
10.11 as follows:

10.12
$$E = (A - B - C) * (1 - CE)$$

10.13 where:

10.14 A = the amount of VOC and air toxics entering the process. The amount of VOC used
10.15 in this calculation must be the amount certified by the supplier, the maximum amount stated
10.16 on the material safety data sheet, or the amount determined by reference method 24. The
10.17 amount of air toxic used in the calculation must be the amount certified by the supplier or
10.18 the maximum amount stated on the safety data sheet, unless an amount has been previously
10.19 determined by an approved reference methodology.

10.20 B = the amount of VOC and air toxics incorporated into the product. This includes
10.21 VOCs chemically transformed in production. An explanation of this calculation must also
10.22 be submitted.

10.23 C = the amount of VOC and air toxics, if any, leaving the process as waste, or otherwise
10.24 not incorporated into the product and not emitted to the air. If the actual VOC and air toxics
10.25 content of the waste is unknown, then C = 0.

CE = the control efficiency, or the product of capture efficiency and collection or destruction efficiency, of any device used to capture and/or control VOC and air toxics emissions, expressed as a decimal fraction of 1.00. The control efficiency must be based on efficiency factors, as defined in part 7005.0100, subpart 9b, including air toxics, or must be based on the control efficiency verified by a performance test conducted according to parts 7017.2001 to 7017.2060 and 7019.3050. The overall efficiency of a pollution control system that uses a hood, as defined in part 7011.0060, subpart 2, as the emission capture device must be based on a capture efficiency of 60 percent. If an alternative capture efficiency has been determined by a performance test conducted according to parts 7017.2001 to 7017.2060 and 7019.3050, that capture efficiency must be used in the calculation of actual emissions.

7019.3080 EMISSION FACTORS.

[For text of item A, see Minnesota Rules]

B. Control equipment efficiency must be based on efficiency factors as defined in part 7005.0100, subpart 9b, including air toxics, or on the efficiency verified by a performance test conducted according to parts 7017.2001 to 7017.2060 and 7019.3050. Calculations of actual emissions from an emission unit through a pollution control system that uses a hood, as defined in part 7011.0060, subpart 2, as the emission capture device must be based on a capture efficiency of 80 percent. If an alternative capture efficiency has been determined by a performance test conducted according to parts 7017.2001 to 7017.2060 and 7019.3050, the owner or operator must use that capture efficiency in the calculation of actual emissions.

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.

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

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

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

12.8 **Chemical Abstracts Service (CAS) number Pollutant**

12.9	(1) 375-61-1	1,1,1,2,2,3,3,4,4,5,5-Undecafluoropentane
12.10	(2) 811-97-2	1,1,1,2-Tetrafluoroethane
12.11	(3) 420-46-2	1,1,1-Trifluoroethane
12.12	(4) 209482-18-8	1-(4-Butoxynaphthyl)tetrahydrothiophenium
12.13		perfluorobutanesulfonate
12.14	(5) 120226-60-0	10:2 Fluorotelomer sulfonic acid
12.15	(6) 763051-92-9	11-Chloroperfluoro-3-oxaundecanesulfonic
12.16		acid
12.17	(7) 2252-84-8	1H-Heptafluoropropane
12.18	(8) 375-17-7	1H-Nonafluorobutane
12.19	(9) 355-37-3	1H-Perfluorohexane
12.20	(10) 375-83-7	1-Hydroperfluoroheptane
12.21	(11) 2991-50-6	2-(N-Ethylperfluorooctanesulfonamido)acetic
12.22		acid
12.23	(12) 2355-31-9	2-(N-Methylperfluorooctanesulfonamido)acetic
12.24		acid
12.25	(13) 53826-13-4	2-(Perfluorodecyl)ethanoic acid
12.26	(14) 53826-12-3	2-(Perfluorohexyl)ethanoic acid
12.27	(15) 27854-31-5	2-(Perfluorooctyl)ethanoic acid
12.28	(16) 359-49-9	2,3,3,3-Tetrafluoropropanoic acid
12.29	(17) 914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid

13.1	(18) 70887-84-2	2H-Perfluoro-2-decenoic acid
13.2	(19) 3330-14-1	2H-Perfluoro-5-methyl-3,6-dioxanonane
13.3	(20) 812-70-4	3-(Perfluoroheptyl)propanoic acid
13.4	(21) 70887-88-6	3-(Perfluoropentyl)-3-fluoro-2-propenoic acid
13.5	(22) 356-02-5	3:3 Fluorotelomer carboxylic acid
13.6	(23) 919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid
13.7	(24) 27619-93-8	4:2 Fluorotelomer sulfonate sodium
13.8	(25) 757124-72-4	4:2 Fluorotelomer sulfonic acid
13.9	(26) 27619-94-9	6:2 Fluorotelomer sulfonate sodium salt
13.10	(27) 27619-97-2	6:2 Fluorotelomer sulfonic acid
13.11	(28) 27619-96-1	8:2 Fluorotelomer sulfonate sodium salt
13.12	(29) 39108-34-4	8:2 Fluorotelomer sulfonic acid
13.13	(30) 335-65-9	8H-Perfluorooctane
13.14	(31) 1478-61-1	Bisphenol AF
13.15	(32) 75-73-0	Carbon tetrafluoride
13.16	(33) 75-45-6	Chlorodifluoromethane
13.17	(34) 75-72-9	Chlorotrifluoromethane
13.18	(35) 75-10-5	Difluoromethane
13.19	(36) 593-53-3	Fluoromethane
13.20	(37) 116-15-4	Hexafluoropropene
13.21	(38) 115-25-3	Octafluorocyclobutane
13.22	(39) 559-40-0	Octafluorocyclopentene
13.23	(40) 354-33-6	Pentafluoroethane
13.24	(41) 678-26-2	Perflenapent
13.25	(42) 756426-58-1	Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic
13.26		acid)
13.27	(43) 863090-89-5	Perfluoro(4-methoxybutanoic acid)
13.28	(44) 428-59-1	Perfluoro(methyloxirane)
13.29	(45) 113507-82-7	Perfluoro-2-ethoxyethanesulfonic acid

14.1	(46) 3330-15-2	Perfluoro-3-(1H-perfluoroethoxy)propane
14.2	(47) 151772-58-6	Perfluoro-3,6-dioxaheptanoic acid
14.3	(48) 377-73-1	Perfluoro-3-methoxypropanoic acid
14.4	(49) 355-25-9	Perfluorobutane
14.5	(50) 335-77-3	Perfluorodecanesulfonic acid
14.6	(51) 79780-39-5	Perfluorododecanesulfonic acid
14.7	(52) 76-16-4	Perfluoroethane
14.8	(53) 335-57-9	Perfluoroheptane
14.9	(54) 375-92-8	Perfluoroheptanesulfonic acid
14.10	(55) 375-85-9	Perfluoroheptanoic acid
14.11	(56) 355-42-0	Perfluorohexane
14.12	(57) 68259-12-1	Perfluorononanesulfonic acid
14.13	(58) 307-34-6	Perfluorooctane
14.14	(59) 754-91-6	Perfluorooctanesulfonamide
14.15	(60) 2706-91-4	Perfluoropentanesulfonic acid
14.16	(61) 2706-90-3	Perfluoropentanoic acid
14.17	(62) 76-19-7	Perfluoropropane
14.18	(63) 365971-87-5	Perfluorotetradecanoate
14.19	(64) 72629-94-8	Perfluorotridecanoic acid
14.20	(65) 2058-94-8	Perfluoroundecanoic acid,
14.21	(66) 83329-89-9	Potassium
14.22		11-chloroeicosafluoro-3-oxaundecane-1-sulfonate
14.23	(67) 335-24-0	Potassium
14.24		perfluoro-4-ethylcyclohexanesulfonate
14.25	(68) 2923-16-2	Potassium trifluoroacetate
14.26	(69) 2250081-67-3	Sodium 4,8-dioxa-3H-perfluorononanoate
14.27	(70) 2806-15-7	Sodium perfluorodecanesulfonate
14.28	(71) 1260224-54-1	Sodium perfluorododecanesulfonate
14.29	(72) 21934-50-9	Sodium perfluoroheptanesulfonate

15.1	(73) 4021-47-0	Sodium perfluorooctanesulfonate
15.2	(74) 116-14-3	Tetrafluoroethylene
15.3	(75) 75-69-4	Trichlorofluoromethane
15.4	(76) 75-46-7	Trifluoromethane
15.5	(77) 1493-13-6	Trifluoromethanesulfonic acid
15.6	(78) 144317-44-2	Triphenylsulfonium
15.7		nonafluorobutanesulfonate

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

15.12 **Chemical Abstracts Service (CAS) number Pollutant**

15.13	(1) 540-59-0	1,2-Dichloroethylene
15.14	(2) 5131-66-8	1-Butoxy-2-propanol
15.15	(3) 563-47-3	3-Chloro-2-methyl-1-propene
15.16	(4) 67-64-1	Acetone
15.17	(5)	Aldehyde
15.18	(6) 309-00-2	Aldrin
15.19	(7)	Aluminum compounds
15.20	(8) 140-57-8	Aramite
15.21	(9) 12674-11-2	Aroclor 1016
15.22	(10) 12672-29-6	Aroclor 1248
15.23	(11) 11097-69-1	Aroclor 1254
15.24	(12) 1912-24-9	Atrazine
15.25	(13) 103-33-3	Azobenzene
15.26	(14) 100-52-7	Benzaldehyde
15.27	(15) 108-86-1	Bromobenzene
15.28	(16) 85-68-7	Benzyl butyl phthalate

16.1	(17) 105-60-2	Caprolactam
16.2	(18) 1306-38-3	Ceric oxide
16.3	(19) 12789-03-6	Technical chlordane
16.4	(20) 10049-04-4	Chlorine dioxide
16.5	(21) 75-68-3	1-Chloro-1,1-difluoroethane
16.6	(22) 75-45-6	Chlorodifluoromethane
16.7	(23) 10061-01-5	(Z)-Dichloropropene
16.8	(24)	Copper compounds
16.9	(25) 123-73-9	(E)-Crotonaldehyde
16.10	(26) 110-82-7	Cyclohexane
16.11	(27) 25321-22-6	Dichlorobenzene
16.12	(28) 95-50-1	1,2-Dichlorobenzene
16.13	(29) 541-73-1	1,3-Dichlorobenzene
16.14	(30) 75-71-8	Dichlorodifluoromethane
16.15	(31) 50-29-3	DDT
16.16	(32) 156-59-2	(Z)-1,2-Dichloroethylene
16.17	(33) 156-60-5	(E)-1,2-Dichloroethylene
16.18	(34) 77-73-6	Dicyclopentadiene
16.19	(35) 117-84-0	Di-n-octyl phthalate
16.20	(36) 637-92-3	Ethyl t-butyl ether
16.21	(37) 111-76-2	2-Butoxyethanol
16.22	(38) 64-18-6	Formic acid
16.23	(39) 591-78-6	2-Hexanone
16.24	(40) 7783-06-4	Hydrogen sulfide
16.25	(41) 1318-09-8	Amphibole-group minerals
16.26	(42) 78-93-3	Methyl ethyl ketone
16.27	(43) 2385-85-5	Mirex
16.28	(44) 71-36-3	1-Butanol
16.29	(45) 123-72-8	Butyraldehyde

17.1	(46) 7697-37-2	Nitric acid
17.2	(47) 55-18-5	N-Nitroso-diethylamine
17.3	(48) 924-16-3	N-Nitroso-di-butylamine
17.4	(49) 930-55-2	N-Nitroso-pyrrolidine
17.5	(50) 40487-42-1	Pendimethalin
17.6	(51) 115-07-1	1-Propene
17.7	(52) 107-98-2	1-Methoxy-2-propanol
17.8	(53) 7631-86-9	Silica
17.9	(54) 7664-93-9	Sulfuric acid
17.10	(55) 540-88-5	tert-Butyl acetate
17.11	(56) 75-65-0	tert-Butyl alcohol
17.12	(57) 109-99-9	Tetrahydrofuran
17.13	(58) 62-56-6	Thiourea
17.14	(59) 26471-62-5	Toluene diisocyanate
17.15	(60) 10061-02-6	trans-1,3-Dichloropropene
17.16	(61) 96-18-4	1,2,3-Trichloropropane
17.17	(62) 526-73-8	1,2,3-Trimethylbenzene
17.18	(63) 95-63-6	1,2,4-Trimethylbenzene
17.19	(64) 108-67-8	1,3,5-Trimethylbenzene,
17.20	(65)	Vanadium compounds
17.21	(66)	Zinc compounds

17.22 Subp. 3. **De minimis reporting; exceptions.**

17.23 A. For facilities calculating and reporting using material balance according to part
 17.24 7019.3060 or 7019.3065 and except as provided in item B, if a toxic chemical is present in
 17.25 a mixture of chemicals at an air toxics reporting facility and the toxic chemical is in a
 17.26 concentration in the mixture that is below one percent of the mixture according to the safety
 17.27 data sheet (SDS) or is below 0.1 percent of the mixture in the case of a toxic chemical that
 17.28 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

19.1	(2)	Arsenic compounds
19.2	(3)	Cadmium compounds
19.3	(4) 57-74-9	Chlordane
19.4	(5)	Chromium compounds
19.5	(6)	Cobalt compounds
19.6	(7)	Dioxins/furans
19.7	(8) 75-21-8	Ethylene oxide
19.8	(9) 76-44-8	Heptachlor
19.9	(10) 118-74-1	Hexachlorobenzene
19.10	(11)	Lead compounds
19.11	(12)	Mercury compounds
19.12	(13) 72-43-5	Methoxychlor
19.13	(14)	Nickel compounds
19.14	(15)	Polycyclic organic matter (POMs)
19.15	(16) 40487-42-1	Pendimethalin
19.16	(17)	PFAS under subpart 2, item B
19.17	(18)	Polychlorinated biphenyl (PCBs)
19.18	(19) 8001-35-2	Toxaphene
19.19	(20) 1582-09-8	Trifluralin

19.20 **Subp. 4. Calculating actual emissions.**

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

19.25 B. An owner or operator of an air toxics reporting facility permitted under part
19.26 7007.1125, registration permit option C, must calculate emissions using the methods in part
19.27 7019.3020, subpart 5.

20.1 **Subp. 5. Recordkeeping.**

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

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

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

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

20.14 **REPEALER.** Minnesota Rules, part 7007.1850, is repealed.