

Chapter NR 438

AIR CONTAMINANT EMISSIONS INVENTORY REPORTING REQUIREMENTS

NR 438.01 Applicability; purpose.
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Note: Correction made under s. 13.93 c2md cbd 7., Stats., Register, December, 1996, No. 492.

NR 438.01 Applicability; purpose. c1d APPLICABILITY. This chapter applies to all air contaminant sources and to their owners and operators.

c2d PURPOSE. The purpose of this chapter is to establish, pursuant to ss. 285.11, 285.13, 285.17, and 299.15 c1d and c2d, Stats., requirements for submission of emissions inventories for owners or operators of air contaminant sources.

History: Cr. Register, May, 1993, No. 449, eff. 6-1-93; CR 21-072: am. c2d Register July 2022 No. 799, eff. 8-1-22.

NR 438.02 Definitions. The definitions contained in ch. NR 400 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

c1ad XCondensable PMY means a material that is vapor phase at stack conditions but that condenses or reacts upon cooling and dilution in the ambient air to form solid or liquid PM immediately after discharge from the stack.

Note: Condensable PM, if present from a source, is typically in the PM_{2.5} size fraction and, therefore, all of it is a component of both primary PM_{2.5} and primary PM₁₀.

c1ed XFacilityY means all stationary sources emitting air contaminants which belong to the same industrial grouping, are located on one or more contiguous or adjacent properties, and are under the control of the same person, or persons under common control. Emissions resulting from loading, unloading or stockpiling materials to or from vessels or vehicles while at a facility shall be considered as part of the facility[s] emissions. Air contaminant sources, other than transportation related activities, shall be considered as part of the same industrial grouping if they are classified under the same 2-digit major group as described in the Standard Industrial Classification Manual, 1987, incorporated by reference in s. NR 484.05 c1d.

c1gd XFilterable PMY means particles that have an aerodynamic diameter equal to or less than 100 micrometers that are directly emitted by a source as a solid or liquid at stack or release conditions and captured on the filter of a stack test train.

c1id XFilterable PM_{2.5}Y means particles that have an aerodynamic diameter equal to or less than 2.5 micrometers that are directly emitted by a source as a solid or liquid at stack or release conditions and captured on the filter of a stack test train.

c1kd XFilterable PM₁₀Y means particles that have an aerodynamic diameter equal to or less than 10 micrometers that are directly emitted by a source as a solid or liquid at stack or release conditions and captured on the filter of a stack test train.

c1md XPrimary PMY means the sum of filterable PM and condensable PM.

c1od XPrimary PM_{2.5}Y means the sum of filterable PM_{2.5} and condensable PM.

c1qd XPrimary PM₁₀Y means the sum of filterable PM₁₀ and condensable PM.

c1sd XProcessY means an activity occurring at a unit device that generates emissions, controls emissions, or discharges emissions.

Note: Examples of processes include combustion, coating, controlling, crushing, or discharging.

c1ud XProcess type codeY means a brief descriptor of the process type.

c2d XSource classification codeY means a process-level code that describes the equipment or operation that is emitting a pollutant.

Note: Source classification codes are available as set forth by EPA[s] Emissions Inventory System, which is an information system for storing all current and historical emissions inventory data.

c3d XUnit deviceY means the physical equipment or equipment line where a process occurs.

Note: Examples of unit devices include boilers, coating lines, baghouses, and stacks.

c4d XUnit device type codeY means a brief descriptor of the unit device type.

History: Cr. Register, May, 1993, No. 449, eff. 6-1-93; am. c1d, c2d, Register, February, 1995, No. 470, eff. 3-1-95; am. c2d, Register, October, 1999, No. 526, eff. 11-1-99; CR 21-072: renum. c1d to c1ed, cr. c1ad, c1gd, c1id, c1kd, c1md, c1od, c1qd, c1sd, c1ud, r. and recr. c2d, cr. c3d, c4d Register July 2022 No. 799, eff. 8-1-22.

NR 438.03 Required emissions inventories. c1d REPORTABLE AIR CONTAMINANTS AND LEVELS. cad Except as provided under par. camd, any person owning or operating a facility that emits an air contaminant in quantities above applicable reporting levels, except indirect sources of air pollution, shall annually submit to the department an emissions inventory of annual, actual emissions or, for primary particulate matter, primary PM₁₀, primary PM_{2.5}, sulfur dioxide, nitrogen oxides, carbon monoxide and volatile organic compounds, throughput information sufficient for the department to calculate its annual, actual emissions. The reportable air contaminants and applicable reporting levels are listed in Table 1 in this chapter.

cafd The owner or operator of a facility shall annually submit to the department an emissions inventory for sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds, primary PM₁₀, primary PM_{2.5}, ammonia, and lead and lead compounds, if the facility meets any of the following:

1. The facility is a Part 70 major source, as defined under 40 CFR 70.2.
2. The facility is a nonattainment area major source, as defined under s. NR 408.02 c21d.
3. The facility has the potential to emit equal to or greater than 100 tons per year of ammonia.
4. The facility has actual emissions equal to or greater than 0.5 ton per year of lead.

camd 1. The owner or operator of a facility described by an SIC code listed in Table D of s. NR 445.11, or that has annual actual emissions of less than 5 tons of particulate matter and less than 3 tons of volatile organic compounds, may limit the information on hazardous air contaminants included in the annual emis-

sions inventory to those contaminants identified under s. NR 445.11 c1d cad or cbd.

2. Notwithstanding subd. 1., the owner or operator shall continue to report annual emissions of any air contaminant reported in prior calendar years for the facility, provided annual, actual emissions are greater than the reporting level in Table 1.

3. The owner or operator of a facility may exclude emissions from any of the following emissions units, operations, or activities from the annual emissions inventory:

a. Maintenance of grounds, equipment, and buildings, including lawn care, pest control, grinding, cutting, welding, painting, woodworking, general repairs, and cleaning, but not including use of organic compounds as clean-up solvents.

b. Boiler, turbine, generator, heating, and air conditioning maintenance.

c. Pollution control equipment maintenance.

d. Fire control equipment.

e. Janitorial activities.

f. Office activities.

g. Convenience water heating.

h. Convenience space heating units with combined heat input capacity of less than 5 million Btu per hour that burn gaseous fuels or liquid fuels.

i. Fuel oil storage tanks with a combined capacity of 10,000 gallons or less.

j. Stockpiled contaminated soils.

k. Demineralization and oxygen scavenging of water for boilers.

L. Purging of natural gas lines.

4. The owner or operator of a facility with emissions exceeding the reporting thresholds in this section shall include all emission units, operations, or activities in the annual emissions inventory. The owner or operator of a facility may exclude emissions information required under s. NR 438.04 c3d cdd for any emissions unit, operation, or activity that meets the criteria under s. NR 407.05 c4d ccd 9. a. If the department determines that an emission unit, operation, or activity does not meet the criteria under s. NR 407.05 c4d ccd 9. a., the owner or operator shall include the emissions in the annual emissions inventory.

cbd When preparing an emissions inventory, the owner or operator of a facility may rely on information in an approved safety data sheet. Trace contaminants need not be reported if they constitute less than 1 percent c10,000 parts per million of the material, or 0.1 percent c1,000 parts per million of the material if the air contaminant is listed with a control requirement under column cid of Table A, B or C of s. NR 445.07, unless a hazardous air contaminant is formed in processing the material.

ccd Notwithstanding par. cad, the department may require any facility to submit an emissions inventory of its annual, actual and maximum theoretical air contaminant emissions.

cdd Any facility that generates or holds emission reduction credits shall report the credits separately to the annual emissions inventory.

c2d REPORTING DEADLINE. Emissions inventories required under this section shall be submitted by March 1 of each year for air contaminants emitted during the preceding year. Through March 1, persons may be granted a 2-week submittal extension ending on March 15, when requested by email, mail, or other manner prescribed, provided the extension is considered reasonable under the circumstances by the department.

c3d PORTABLE SOURCES. The owner or operator of a portable source shall file an emissions inventory covering all operations at all locations in the state during the previous year.

c4d REQUIRED RECORDS. An owner or operator of a facility required to file an emissions inventory shall keep accurate and reliable records sufficient to enable verification of the emissions inventory by the department. Records shall include data on fuel composition and consumption, composition and quantities of raw materials handled that contribute to emissions, composition and quantities of wastes incinerated, continuous emissions monitoring data and audits, and any results of stack or performance tests together with the names of persons or firms responsible for each test, if applicable. Records shall be retained for 5 years following the year in which the emissions inventory is submitted.

c5d EMISSIONS INVENTORY AND CERTIFICATION. cad Based on the throughput or emissions information submitted under this section and s. NR 438.04, the department shall determine each facility's annual actual emissions and typical ozone season day emissions based on emission factors contained in Compilation of Air Pollutant Emission Factors, AP-42, Volume 1: Stationary Point and Area Sources, USEPA-OAQPS, as incorporated by reference under s. NR 484.05 c8d, or in the EPA's online database of emissions factors for criteria and hazardous air pollutants. Other emission factors or methods, including mass balance or other use reporting, consumption and analytical methodologies, or continuous emissions monitoring data, if applicable, may be used by the department.

Note: The EPA's WebFIRE database of emissions factors for criteria and hazardous air pollutants is available at <https://cfpub.epa.gov/webfire/>.

cbd The actual annual emissions determined by the department under par. cad shall constitute the department's annual emissions inventory.

ccd By May 31 of each year, the department shall send each owner or operator of a facility that is required to file an emissions inventory a notification that an emissions inventory summary report of the air contaminants emitted by the facility for the previous year has been created by the department. The owner or operator of a facility required to obtain an air pollution control permit under s. 285.60, Stats., and ch. NR 405, 406, 407, or 408, or that emits volatile organic compounds or nitrogen oxides in an ozone nonattainment area, shall, by June 30 of each year, send a written certification to the department that its emissions inventory summary report is correct. The certification shall contain the name, title, signature, and telephone number of the responsible official, the date of certification, and a statement that the information contained in the emissions inventory summary report is accurate to the best knowledge of the owner or operator of that facility.

c6d DISPUTED EMISSIONS. Any facility that disputes the emissions inventory summary report created by the department under sub. c5d ccd may request, in writing, that the department review its emissions inventory summary report. The department shall review and supply to the facility, within 14 calendar days of receipt of the facility's written request, information used to prepare the emissions inventory summary report for that facility. If the facility continues to dispute the emissions inventory summary report, it shall supply to the department, within 14 calendar days of receipt of the department's information, the reasons it disputes the report. The facility shall be notified within 7 calendar days of receipt of this information of the department's decision on whether to adjust the emissions inventory and recreate the emissions inventory summary report. If the facility continues to dispute the emissions inventory summary report, it may appeal the department's final decision pursuant to state law. The re-

sponsible official for the facility shall certify any emissions not in dispute by June 30 of each year.

History: Cr. Register, May, 1993, No. 449, eff. 6-1-93; am. c1d cbd, c5d cad, Register, February, 1995, No. 470, eff. 3-1-95; am. c1d cbd, Table 1, Register, December, 1995, No. 480, eff. 1-1-96; am. c5d cad, Register, December, 1996, No. 492, eff. 1-1-97; am. Table 1 and c5d cad, Register, October, 1999, No. 526, eff. 11-1-99; CR 02-097: am. c1d cad and cbd, cr. c1d camd and Table 2 Register June 2004 No. 582, eff. 7-1-04; CR 05-055: renum. c1d cad cintro.d to be cad and am., r. c1d cad 1., 2. and Table 1, am. c1d camd, renum. Table 2 to be Table 1 and am. Register December 2005 No. 600, eff. 1-1-06; CR 09-088: am. Table 1 Register May 2010 No. 653, eff. 6-1-10; CR 21-072: am. ctitled, c1d cad, cr. c1d cafd, am. c1d camd 1., cr. c1d camd 3., 4., am. c1d cbd, renum. Table 1 to NR 438.04, am. c1d ccd, cdd, c2d to c6d Register July 2022 No. 799, eff. 8-1-22; correction in c1d cafd 2., camd 3., c4d, c5d ccd made under s. 35.17, Stats., Register July 2022 No. 799.

NR 438.04 Content of emissions inventories. c1d
GENERAL INSTRUCTIONS. Emissions inventories required under this chapter shall be submitted in the manner prescribed by the department. Emissions inventories submitted by facilities shall contain the information specified under s. NR 438.03 c1d and c3d and this section. Emissions shall be reported separately for each process or group of similar processes at each facility.

c2d FACILITY IDENTIFICATION AND GENERAL INFORMATION. For all facilities the emissions inventories shall include:

- cad The name and mailing address of the facility.
- cbd The location address of the facility.
- cdd The facility[s applicable NAICS code and SIC code.
- cfid The name, telephone number, mailing address, and email address of the individual to be contacted regarding the emissions inventory.

c3d EMISSIONS-GENERATING UNITS. For each emissions-generating unit, the emissions inventory shall include all of the following:

- cad Unit device identifier.
- cbd Unit device type code.
- ccd Design capacity, if applicable for the unit device type.
- cdd For each emissions-generating process, all of the following:
 1. Process identifier.
 2. Process type code.
 3. Source classification code, except for processes at tanks.
 4. Throughput material type.
 5. Annual throughput.
 6. Maximum and average hourly throughput.
 7. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.
 8. The average and maximum sulfur content in percent by weight per fuel, if applicable for the throughput material type.
 9. The average and maximum ash content in percent by weight per fuel, if applicable for the throughput material type.
 10. For each emission factor, all of the following:
 - a. Pollutant.
 - b. Value or formula.
 - c. Units.
 - d. Origin.
 11. Annual emissions by pollutant.
 12. The fractions of emissions in percent that flow to connected controlling or discharging processes and the associated unit device and process identifiers.
 13. Annual emissions measured by a continuous emissions monitor and pollutant, if applicable.

c4d EMISSIONS-CONTROLLING UNITS. For each emissions-controlling unit, the emissions inventory shall include all of the following:

- cad Unit device identifier.
- cbd Unit device type code.
- ccd For each controlling process, all of the following:
 1. Process identifier.
 2. Process type code.
 3. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.
 4. Control efficiencies by pollutant in percent.
 5. The fractions of emissions in percent that flow to connected controlling or discharging processes and the associated unit device and process identifiers.

cdd For each emissions-generating process, all of the following:

1. Process identifier.
2. Process type code.
3. Source classification code.
4. Throughput material type.
5. Annual throughput.
6. Maximum and average hourly throughput.
7. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.
8. The average and maximum sulfur content in percent by weight per fuel, if applicable for the throughput material type.
9. The average and maximum ash content in percent by weight per fuel, if applicable for the throughput material type.
10. For each emission factor, all of the following:
 - a. Pollutant.
 - b. Value or formula.
 - c. Units.
 - d. Origin.
11. Annual emissions by pollutant.
12. The fractions of emissions that flow to connected controlling or discharging processes and the associated unit device and process identifiers.
13. Annual emissions measured by a continuous emissions monitor and pollutant, if applicable.

c5d EMISSIONS-DISCHARGING UNITS. For each stack, fugitive, or discharging unit, the emissions inventory shall include all of the following:

- cad Unit device identifier.
- cbd Unit device type code.
- ccd Discharge height.
- cdd Stack inside top diameter, as applicable.
- ced Average exit temperature.
- cfid Average exit velocity, as applicable.
- cgd Fugitive release parameters, as applicable.
- chd For each discharging process, all of the following:
 1. Process identifier.
 2. Process type code.
 3. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.

Table 1
Reporting Levels for Calendar Years 2004 and Later

Air Contaminant Name	CAS Number¹	Reporting Level lbs/yrd
Acetaldehyde.....	75-07-0	404
Acetamide.....	60-35-5	6,000
Acetic acid.....	64-19-7	5,774
Acetic anhydride.....	108-24-7	4,912
Acetone.....	67-64-1	100,000
Acetonitrile.....	75-05-8	6,000
Acetophenone.....	98-86-2	6,000
2-Acetylaminofluorene.....	53-96-3	6,000
Acrolein.....	107-02-8	75
Acrylamide.....	79-06-1	0.683
Acrylic acid.....	79-10-7	88.8
Acrylonitrile.....	107-13-1	13.1
Adipic acid.....	124-04-9	1,176
Adiponitrile.....	111-69-3	2,080
Adriamycin.....	23214-92-8	1.22
Aflatoxins.....	1402-68-2	1.22
Aldrin.....	309-00-2	58.8
Allyl alcohol.....	107-18-6	279
Allyl chloride.....	107-05-1	736
Allyl glycidyl ether.....	106-92-3	1,098
Aluminum alkyls and soluble salts, as Al.....	7429-90-5 ²	471
Aluminum pyro powders, as Al.....	7429-90-5 ²	1,176
o-Aminoazotoluene c2-Aminoazotoluened.....	97-56-3	0.808
4-Aminobiphenyl.....	92-67-1	0.148
Amitrole.....	61-82-5	3.29
³ Ammonia.....	7664-41-7	4,097
Ammonium perfluorooctanoate.....	3825-26-1	2.35
Aniline.....	62-53-3	1,792
o-Anisidine and o-anisidine hydrochloride cmixtures and isomersd.....	29191-52-4 ²	22.2
Antimony & compounds, as Sb.....	7440-36-0 ²	118
Antimony trioxide.....	1309-64-4	17.8
ANTU.....	86-88-4	70.6
Arsenic, elemental and inorganic compounds, as As.....	7440-38-2 ²	0.207
³ Arsine.....	7784-42-1	4.44
Asbestos, all forms.....	1332-21-4 ²	1.22
Atrazine.....	1912-24-9	1,176
Azathioprine.....	446-86-6	1.74
Azinphos-methyl.....	86-50-0	47.1
Barium, soluble compounds, as Ba.....	7440-39-3 ²	118
Benomyl.....	17804-35-2	2,353
Benzcadanthracene.....	56-55-3	8.08
Benzene.....	71-43-2	114
Benzidine.....	92-87-5	0.0133
Benzocadphenanthrene cChrysened.....	218-01-9	12
Benzocj,kdfluorene.....	206-44-0	12
Benzocbdfuoranthene.....	205-99-2	1.22
Benzocjdphenanthrene.....	205-82-3	1.22
Benzockdfuoranthene.....	207-08-9	1.22
Benzocadpyrene.....	50-32-8	0.808
Benzotrichloride.....	98-07-7	1.22
Benzoyl chloride.....	98-88-4	940
Benzoyl peroxide.....	94-36-0	1,176
Benzyl acetate.....	140-11-4	6,000
Benzyl chloride.....	100-44-7	1,218
Beryllium and beryllium compounds, as Be.....	7440-41-7 ²	0.37
Biphenyl.....	92-52-4	297
Bischloroethyl nitrosourea.....	154-93-8	1.22
N,N-Bis c2-chloroethylid-2-naphthylamine cChlornaphazined.....	494-03-1	1.22
Bischloromethylid ether cBCMEd and technical grade.....	542-88-1	1.22
Bisc2-dimethylaminoethylid ether cDMAEEd.....	3033-62-3	77.1
Bismuth telluride, as BI2Te3: Se-doped.....	1304-82-1	1,176
Borates, tetra, sodium salts, decahydrate.....	1303-96-4 ²	1,176

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level lbs/yr
Borates, tetra, sodium salts, pentahydrate.....	1303-96-4 ²	235
Boron tribromide.....	10294-33-4	3,352
³ Boron trifluoride.....	7637-07-2	907
Bromacil.....	314-40-9	2,353
³ Bromine.....	7726-95-6	154
³ Bromine pentafluoride.....	7789-30-2	168
Bromodichloromethane.....	75-27-4	24
Bromoform.....	75-25-2	1,216
1,3-Butadiene.....	106-99-0	3.17
sec-Butanol.....	78-92-2	100,000
tert-Butanol.....	75-65-0	100,000
⁴ 2-Butoxyethanol cEthylene glycol monobutyl ether; EGBE; Butyl cellosolved.....	111-76-2	6,000
n-Butyl alcohol cn-Butanol.....	71-36-3	6,000
n-Butyl acetate.....	123-86-4	100,000
t-Butyl acetate.....	540-88-5	see footnote 7
n-Butyl acrylate.....	141-32-2	2,467
n-Butylamine.....	109-73-9	4,892
Butylated hydroxyanisole cBHAd.....	25013-16-5	6,000
tert-Butyl chromate, as Cr.....	1189-85-1	0.074
n-Butyl glycidyl ether cBGEd.....	2426-08-6	6,000
n-Butyl lactate.....	138-22-7	6,000
o-sec-Butylphenol.....	89-72-5	6,000
p-tert-Butyltoluene.....	98-51-1	1,426
C.I. Basic Red 9 monohydrochloride.....	569-61-9	12.5
Cadmium and cadmium compounds, as Cd.....	7440-43-9 ²	0.494
Calcium cyanamide.....	156-62-7	118
Calcium hydroxide.....	1305-62-0	1,176
Calcium oxide.....	1305-78-8	471
Camphor csynthetic.....	76-22-2	2,930
Caprolactam caerosol and vapord.....	105-60-2	5,444
Captafol.....	2425-06-1	23.5
Captan.....	133-06-2	1,176
Carbaryl.....	63-25-2	1,176
Carbofuran.....	1563-66-2	23.5
Carbon dioxide.....	124-38-9	100,000 tons
Carbon monoxide.....	630-08-0	10,000
Carbon black.....	1333-86-4	823
Carbon disulfide.....	75-15-0	6,000
Carbon tetrabromide.....	558-13-4	319
Carbon tetrachloride.....	56-23-5	59.2
Carbonyl fluoride.....	353-50-4	1,270
Carbonyl sulfide.....	463-58-1	6,000
Catechol cPyrocatehold.....	120-80-9	5,298
Refractory Ceramic Fibers crespirable sized.....	²	1.22
Cesium hydroxide.....	21351-79-1	471
Chloramben.....	133-90-4	6,000
Chlorambucil.....	305-03-3	0.00683
Chlordane.....	57-74-9	118
Chlorendic acid.....	115-28-6	34.2
Chlorinated camphene cToxaphened.....	8001-35-2	2.78
Chlorinated diphenyl oxide.....	55720-99-5	118
Chlorinated paraffins cC12; 60% chlorined.....	108171-26-2	35.5
³ Chlorine.....	7782-50-5	341
³ Chlorine dioxide.....	10049-04-4	64.9
³ Chlorine trifluoride.....	7790-91-2	124
Chloroacetic acid.....	79-11-8	6,000
2-Chloroacetophenone.....	532-27-4	74.4
Chlorobenzene cMonochlorobenzened.....	108-90-7	6,000
Chlorobenzilate.....	510-15-6	6,000
o- Chlorobenzylidene malononitrile.....	2698-41-1	126
Chlorobromomethane.....	74-97-5	100,000
³ 1-Chloro-1, 1-difluoroethane cHydrochlorofluorocarbon-142b; HCFC-142b; R-142bd..	75-68-3	6,000

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level lbs/yrd
³ Chlorodifluoromethane cHydrochlorofluorocarbon-22; HCFC-22; R-22d.....	75-45-6	6,000
1-c2-Chloroethyl-3-cyclohexyl-1-nitrosourea cCCNUd.....	13010-47-4	1.22
³ Chlorofluorocarbon-11 cCFC-11; R-11; Trichlorofluoromethaned.....	75-69-4	6,000
³ Chlorofluorocarbon-111 cCFC-111d.....	954-56-3	6,000
³ Chlorofluorocarbon-112 cCFC-112d.....	76-12-0	6,000
³ Chlorofluorocarbon-113 cCFC-113; R-113; Trichlorotrifluoroethaned.....	76-13-1	6,000
³ Chlorofluorocarbon-114 cCFC-114; R-114; Dichlorotetrafluoroethaned.....	76-14-2	6,000
³ Chlorofluorocarbon-115 cCFC-115; R-115; Monochloropentafluoroethaned.....	76-15-3	6,000
³ Chlorofluorocarbon-12 cCFC-12; R-12; Dichlorodifluoromethaned.....	75-71-8	6,000
³ Chlorofluorocarbon-13 cCFC-13; R-13; Chlorotrifluoromethaned.....	75-72-9	6,000
³ Chlorofluorocarbon-211 cCFC-211; R-211d.....	422-78-6	6,000
³ Chlorofluorocarbon-212 cCFC-212; R-212d.....	3182-26-1	6,000
³ Chlorofluorocarbon-213 cCFC-213; R-213d.....	165-97-7	6,000
³ Chlorofluorocarbon-214 cCFC-214; R-214d.....	29255-31-0	6,000
³ Chlorofluorocarbon-215 cCFC-215; R-215d.....	4259-43-2	6,000
³ Chlorofluorocarbon-216 cCFC-216; R-216d.....	661-97-2	6,000
³ Chlorofluorocarbon-217 cCFC-217; R-217d.....	422-86-6	6,000
Chloroform.....	67-66-3	38.6
Chloromethyl methyl ether cMMEd.....	107-30-2	1.22
1-Chloro-1-nitropropane.....	600-25-9	2,378
Chloropicrin cTrichloronitromethaned.....	76-06-2	158
β-Chloroprene.....	126-99-8	1.22
o-Chlorostyrene.....	2039-87-4	6,000
o-Chlorotoluene.....	95-49-8	6,000
Chlorpyrifos.....	2921-88-2	47.1
Chromium cmetald and compounds other than chromium cVId.....	7440-47-3 ²	118
Chromium cVId: Chromic acid mists and dissolved Cr cVId aerosols, as Cr.....	7440-47-3 ²	0.074
Chromium cVId compounds and particulates.....	7440-47-3 ²	0.074
Chromyl chloride, as Cr.....	14977-61-8	0.074
Cobalt, elemental, and inorganic compounds, as Co.....	7440-48-4 ²	4.71
³ Coke oven emissions.....	²	1.43
Copper and compounds, fume, as Cu.....	7440-50-8 ²	47.1
Copper and compounds, dust & mists, as Cu.....	7440-50-8 ²	235
p-Cresidine.....	120-71-8	20.7
Cresol cmixtures and isomersd.....	1319-77-3 ²	5,203
Crotonaldehyde.....	4170-30-3 ²	281
Crufomate.....	299-86-5	1,176
Cumene cIsopropyl benzened.....	98-82-8	6,000
Cyanamide.....	420-04-2	471
Cyanides, cinorganicsd, as CN.....	143-33-9 ²	1,635
Cyanogen.....	460-19-5	5,008
Cyanogen chloride.....	506-77-4	247
Cyclohexanol.....	108-93-0	6,000
Cyclohexanone.....	108-94-1	6,000
Cyclohexylamine.....	108-91-8	6,000
Cyclonite.....	121-82-4	118
Cyclopentadiene.....	542-92-7	6,000
Cyclophosphamide.....	50-18-0	5.23
Cyhexatin.....	13121-70-5	1,176
2,4-D, salts and esters.....	94-75-7	6,000
Dacarbazine.....	4342-03-4	0.0635
DDE.....	72-55-9	6,000
Demeton.....	8065-48-3	24.9
Diacetone alcohol.....	123-42-2	6,000
2,4-Diaminoanisole sulfate.....	39156-41-7	240
2,4-Diaminotoluene cToluene-2,4-diamined.....	95-80-7 ²	0.808
Diazinon.....	333-41-5	23.5
Diazomethane.....	334-88-3	80.9
Dibenzca,hdacridine.....	226-36-8	8.08
Dibenzca,jdacridine.....	224-42-0	8.08
Dibenzca,hdanthracene.....	53-70-3	0.74
7H-Dibenzoc,gdcarbazole.....	194-59-2	0.808

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level cbs/yr
Dibenzofurans.....	132-64-9 ²	6,000
Dibenzoc,a,dpyrene.....	192-65-4	0.808
Dibenzoc,a,h,dpyrene.....	189-64-0	0.0808
Dibenzoc,a,i,dpyrene.....	189-55-9	0.0808
Dibenzoc,a,l,dpyrene.....	191-30-0	0.0808
³ Diborane.....	19287-45-7	26.6
1,2-Dibromo-3-chloropropane cDBCPd.....	96-12-8	0.468
1,2-Dibromoethane cEthylene Dibromide; EDBd.....	106-93-4	4.04
2-N-Dibutylaminoethanol.....	102-81-8	834
Dibutylphenyl phosphate.....	2528-36-1	826
Dibutyl phthalate cDi-n-butyl phthalated.....	84-74-2	1,176
o-Dichlorobenzene c1,2-Dichlorobenzened.....	95-50-1	6,000
p-Dichlorobenzene c1,4-Dichlorobenzened.....	106-46-7	80.8
3,3[-Dichlorobenzidine.....	91-94-1	2.61
1,3-Dichloro-5,5-dimethyl hydantoin.....	118-52-5	47.1
Dichlorodiphenyltrichloroethane cDDTd.....	50-29-3	9.16
1,1-Dichloroethane cEthylidene dichlorided.....	75-34-3	6,000
1,2-Dichloroethane cEthylene dichloride; EDCd.....	107-06-2	34.2
Dichloroethyl ether cBisc2-chloroethyldetherd.....	111-44-4	6,000
1,2-Dichloroethylene.....	540-59-0	6,000
1,1-Dichloro-1-nitroethane.....	594-72-9	2,771
1,3-Dichloropropene.....	542-75-6	222
2,2-Dichloropropionic acid.....	75-99-0	1,176
Dichlorvos.....	62-73-7	44.4
Dicrotophos.....	141-66-2	58.8
Dicyclopentadiene.....	77-73-6	6,000
Dieldrin.....	60-57-1	58.8
Diethanolamine.....	111-42-2	471
Diethylamine.....	109-89-7	3,519
2-Diethylaminoethanol.....	100-37-8	2,255
Diethylene triamine.....	111-40-0	993
Diethyl hexyl phthalate cBisc2-ethyl hexyld phthalate; Di-sec-octyl phthalate; DEHPd... Diethyl phthalate.....	117-81-7 84-66-2	1,176 1,176
Diethylstilbestrol cDESd.....	56-53-1	0.00888
Diethyl sulfate.....	64-67-5	1.22
Diethyl ketone.....	96-22-0	100,000
1,1-Difluoroethane.....	75-37-6	6,000
Diglycidyl ether cDGEd.....	2238-07-5	125
Diglycidyl resorcinol ether.....	101-90-6	1.81
1,8-Dihydroxyanthroquinone cDanthrond.....	117-10-2	40.4
Diisobutyl ketone.....	108-83-8	6,000
Diisopropylamine.....	108-18-9	4,869
N,N-Dimethyl acetamide.....	127-19-5	6,000
Dimethylamine.....	124-40-3	2,169
4-Dimethylaminoazobenzene.....	60-11-7	0.683
Dimethylaniline cN,N-Dimethylanilined.....	121-69-7	5,830
3,3[-Dimethylbenzidine co-Tolidined.....	119-93-7	1.22
Dimethyl carbamoyl chloride.....	79-44-7	0.24
Dimethylethoxysilane.....	14857-34-2	501
N,N-Dimethylformamide.....	68-12-2	2,665
1,1-Dimethylhydrazine.....	57-14-7	1.22
Dimethylphthalate.....	131-11-3	1,176
Dimethyl sulfate.....	77-78-1	1.22
Dinitolmide.....	148-01-6	1,176
Dinitrobenzene cmixtures and isomersd.....	528-29-0 ²	243
Dinitro-o-cresol c4,6-Dinitro-o-cresold.....	534-52-1	47.1
2,4-Dinitrophenol.....	51-28-5	6,000
Dinitrotoluene cmixtures and isomersd.....	25321-14-6 ²	47.1
n-Dioctyl phthalate.....	117-84-0	6,000
1,4-Dioxane c1,4-Diethylene oxided.....	123-91-1	115
Dioxathion.....	78-34-2	47.1
Diquat, respirable dust cvarious compoundsd cDiquat dibromided.....	2764-72-9 ²	23.5

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level lbs/yr
Diquat, total dust cvarious compoundsd cDiquat dibromided.....	2764-72-9 ²	118
Direct black 38 cBenzidine-based dyed.....	1937-37-7	0.423
Direct blue 6 cBenzidine-based dyed.....	2602-46-2	0.423
Disperse Blue 1.....	2475-45-8	683
Disulfiram.....	97-77-8	471
Disulfoton.....	298-04-4	23.5
Divinyl benzene cmixtures and isomersd.....	1321-74-0 ²	6,000
Endosulfan.....	115-29-7	23.5
Endrin.....	72-20-8	23.5
Epichlorohydrin c1-Chloro-2,3-epoxypropaned.....	106-89-8	88.8
EPN.....	2104-64-5	23.5
1,2-Epoxybutane c1,2-Butylene oxided.....	106-88-7	1,777
Ethanolamine.....	141-43-5	1,763
Ethion.....	563-12-2	94.1
⁴ 2-Ethoxyethanol cEthylene glycol monoethyl ether; EGEE; Cellosolved.....	110-80-5	4,336
⁴ 2-Ethoxyethyl acetate cEthylene glycol monoethyl ether acetate; EGEEA; Cellosolve acetated.....	111-15-9	6,000
Ethyl acetate.....	141-78-6	100,000
Ethyl acrylate.....	140-88-5	4,817
Ethylamine cEthanamined.....	75-04-7	2,169
Ethyl amyl ketone.....	541-85-5	6,000
Ethyl benzene.....	100-41-4	6,000
Ethyl bromide.....	74-96-4	5,243
Ethyl tert-butyl ether cETBEd.....	637-92-3	4,916
Ethyl butyl ketone.....	106-35-4	6,000
Ethyl chloride cChloroethaned.....	75-00-3	6,000
Ethyl cyanoacrylate.....	7085-85-0	241
Ethylene chlorohydrin.....	107-07-3	1,077
Ethylenediamine.....	107-15-3	5,783
Ethylene glycol vapor and aerosol.....	107-21-1	6,000
Ethylene oxide.....	75-21-8	10.1
Ethylene thiourea.....	96-45-7	68.3
Ethylenimine cAziridined.....	151-56-4	207
Ethylidene norbornene.....	16219-75-3	6,000
N-Ethylmorpholine.....	100-74-3	5,542
Ethyl silicate.....	78-10-4	6,000
Fenamiphos.....	22224-92-6	23.5
Fensulfothion.....	115-90-2	23.5
Fenthion.....	55-38-9	47.1
Fine mineral fibers cincludes mineral fiber emissions from facilities manufacturing or processing glass, rock or slag fibers, or other mineral derived fibers, of average diame- ter 1 micrometer or lessd.....	²	6,000
Flour dust cinhalable fractiond.....	²	118
Fluorides, cinorganicsd, as F.....	²	588
³ Fluorine.....	7782-41-4	366
Fonofos.....	944-22-9	23.5
Formaldehyde.....	50-00-0	68.3
Formamide.....	75-12-7	4,334
Formic acid.....	64-18-6	2,214
Furan.....	110-00-9	1.22
Furfural.....	98-01-1	1,849
Furfuryl alcohol.....	98-00-0	6,000
³ Germanium tetrahydride.....	7782-65-2	147
Glutaraldehyde.....	111-30-8	67
Glycidol.....	556-52-5	1.22
³ Glycol ethers.....	²	6,000
Graphite call forms except graphite fiberd.....	7782-42-5	471
³ Halon-1211 cBromochlorodifluoromethaned.....	353-59-3	6,000
³ Halon-1301 cBromotrifluoromethaned.....	75-63-8	6,000
³ Halon-2402 cDibromotetrafluoroethaned.....	124-73-2	6,000
Heptachlor and heptachlor epoxide.....	76-44-8	11.8
Hexachlorobenzene cHCBD.....	118-74-1	0.471

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level lbs/yrd
Hexachlorobutadiene.....	87-68-3	50.2
Hexachlorocyclopentadiene.....	77-47-4	26.2
Hexachloroethane.....	67-72-1	222
Hexachloronaphthalene.....	1335-87-1	47.1
Hexamethyl phosphoramidate.....	680-31-9	1.22
Hexamethylene-1,6-diisocyanate cHDId.....	822-06-0	0.888
n-Hexane.....	110-54-3	6,000
1,6- Hexanediamine.....	124-09-4	559
1-Hexene.....	592-41-6	6,000
sec-Hexyl acetate.....	108-84-9	6,000
Hexylene glycol.....	107-41-5	6,000
Hydrazine and hydrazine sulfate.....	302-01-2 ²	0.181
³ Hydrochlorofluorocarbon-121 cHCFC-121d.....	²	6,000
³ Hydrochlorofluorocarbon-122 cHCFC-122d.....	²	6,000
³ Hydrochlorofluorocarbon-123 cHCFC-123, R-123d.....	306-83-2 ²	6,000
³ Hydrochlorofluorocarbon-124 cHCFC-124, R-124d.....	63938-10-3 ²	6,000
³ Hydrochlorofluorocarbon-131 cHCFC-131d.....	²	6,000
³ Hydrochlorofluorocarbon-132b cHCFC-132bd.....	1649-08-7	6,000
³ Hydrochlorofluorocarbon-133a cHCFC-133ad.....	75-88-7	6,000
³ Hydrochlorofluorocarbon-141b cHCFC-141b, R-141bd.....	1717-00-6	6,000
³ Hydrochlorofluorocarbon-21 cHCFC-21, Dichlorofluoromethaned.....	75-43-4	6,000
³ Hydrochlorofluorocarbon-221 cHCFC-221d.....	²	6,000
³ Hydrochlorofluorocarbon-222 cHCFC-222d.....	²	6,000
³ Hydrochlorofluorocarbon-223 cHCFC-223d.....	²	6,000
³ Hydrochlorofluorocarbon-224 cHCFC-224d.....	²	6,000
³ Hydrochlorofluorocarbon-225 ca cHCFC-225cad.....	422-56-0	6,000
³ Hydrochlorofluorocarbon-225 cb cHCFC-225cbd.....	507-55-1	6,000
³ Hydrochlorofluorocarbon-226 cHCFC-226d.....	²	6,000
³ Hydrochlorofluorocarbon-231 cHCFC-231d.....	²	6,000
³ Hydrochlorofluorocarbon-232 cHCFC-232d.....	²	6,000
³ Hydrochlorofluorocarbon-233 cHCFC-233d.....	²	6,000
³ Hydrochlorofluorocarbon-234 cHCFC-234d.....	²	6,000
³ Hydrochlorofluorocarbon-235 cHCFC-235d.....	²	6,000
³ Hydrochlorofluorocarbon-241 cHCFC-241d.....	²	6,000
³ Hydrochlorofluorocarbon-242 cHCFC-242d.....	²	6,000
³ Hydrochlorofluorocarbon-243 cHCFC-243d.....	²	6,000
³ Hydrochlorofluorocarbon-244 cHCFC-244d.....	²	6,000
³ Hydrochlorofluorocarbon-251 cHCFC-251d.....	²	6,000
³ Hydrochlorofluorocarbon-252 cHCFC-252d.....	²	6,000
³ Hydrochlorofluorocarbon-253 cHCFC-253d.....	²	6,000
³ Hydrochlorofluorocarbon-261 cHCFC-261d.....	²	6,000
³ Hydrochlorofluorocarbon-262 cHCFC-262d.....	²	6,000
³ Hydrochlorofluorocarbon-271 cHCFC-271d.....	²	6,000
³ Hydrochlorofluorocarbon-31 cHCFC-31; R-31; Chlorofluoromethaned.....	593-70-4	6,000
Hydrogenated terphenyls.....	61788-32-7	1,160
³ Hydrogen bromide.....	10035-10-6	3,247
³ Hydrogen chloride cHydrochloric acid; Muriatic acid.....	7647-01-0	1,777
³ Hydrogen cyanide.....	74-90-8	1,699
³ Hydrogen fluoride cHydrofluoric acid.....	7664-39-3	803
³ Hydrogen peroxide.....	7722-84-1	327
³ Hydrogen sulfide.....	7783-06-4	3,279
Hydroquinone.....	123-31-9	471
2-Hydroxypropyl acrylate.....	999-61-1	626
Indenoc1,2,3-cddpyrene.....	193-39-5	8.08
Indium.....	7440-74-6	23.5
³ Iodine.....	7553-56-2	340
Iron dextran complex.....	9004-66-4	1.22
Iron oxide dust and fume, as Fe.....	1309-37-1	1,176
Iron salts, soluble, as Fe.....	²	235
Isobutyl acetate.....	110-19-0	100,000
Isobutyl alcohol.....	78-83-1	6,000
Isooctyl alcohol.....	26952-21-6	6,000

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level clbs/yrd
Isophorone.....	78-59-1	6,000
Isophorone diisocyanate.....	4098-71-9	10.7
Isoprene.....	78-79-5	1.22
⁴ 2-Isopropoxyethanol.....	109-59-1	6,000
Isopropylamine.....	75-31-0	2,843
Isopropyl glycidyl ether.....	4016-14-2	6,000
N-Isopropylaniline.....	768-52-5	2,602
Kaolin.....	1332-58-7	471
Kepone cChlordeconed.....	143-50-0	0.193
Ketene.....	463-51-4	202
Lead Acetate, as Pb.....	301-04-2	11.1
Lead compounds.....	7439-92-1 ²	400
Lead Phosphate, as Pb.....	7446-27-7	74
Lindane and other hexachlorocyclohexane isomers.....	58-89-9 ²	2.87
Maleic anhydride.....	108-31-6	94.4
Manganese, dust and inorganic compounds, as Mn.....	7439-96-5 ²	47.1
Melphalan.....	148-82-3	0.024
³ Mercury, as Hg, alkyl compounds.....	7439-97-6 ²	2.35
³ Mercury, as Hg, aryl compounds.....	7439-97-6 ²	23.5
³ Mercury, as Hg, inorganic forms including metallic mercury,.....	7439-97-6 ²	5.88
Mesityl oxide.....	141-79-7	6,000
Mestranol.....	72-33-3	1.22
Methacrylic acid.....	79-41-4	6,000
Methanol.....	67-56-1	6,000
Methomyl.....	16752-77-5	588
Methoxychlor.....	72-43-5	6,000
⁴ 2-Methoxyethanol cMethyl Cellosolve; EGMEd.....	109-86-4	3,661
⁴ 2-Methoxyethyl acetate cMethyl Cellosolve acetate; EGMEAd.....	110-49-6	5,684
4-Methoxyphenol.....	150-76-5	1,176
³ Methyl chloroform c1,1,1-Trichloroethane; TCAd.....	71-55-6	6,000
Methyl ethyl ketone c2-Butanone; MEKd.....	78-93-3	6,000
Methyl acetate.....	79-20-9	100,000
Methyl acetylene.....	74-99-7	100,000
Methyl acrylate.....	96-33-3	1,657
Methylacrylonitrile.....	126-98-7	646
Methylamine.....	74-89-5	1,494
Methyl n-amyl ketone.....	110-43-0	6,000
N-Methyl aniline.....	100-61-8	516
Methyl bromide cBromomethaned.....	74-83-9	444
Methyl n-butyl ketone.....	591-78-6	4,819
Methyl chloride cChloromethaned.....	74-87-3	6,000
5-Methyl chrysene.....	3697-24-3	0.808
Methyl 2-cyanoacrylate.....	137-05-3	214
Methylcyclohexanol.....	25639-42-3	6,000
o-Methylcyclohexanone.....	583-60-8	6,000
Methyl demeton.....	8022-00-2	118
Methylene bisphenyl isocyanate cMethylene diphenyl isocyanate; MDId.....	101-68-8	12
³ Methylene chloride cDichloromethaned.....	75-09-2	1,890
4,4[-Methylene bisc2-chloroanilined cMOCAd.....	101-14-4	2.07
Methylene bisc4-cyclohexylisocyanated.....	5124-30-1	12.6
4,4[-Methylenedianiline cand dihydrochlorided.....	101-77-9 ²	1.93
Methyl ethyl ketone peroxide.....	1338-23-4	472
Methyl formate.....	107-31-3	6,000
Methyl hydrazine.....	60-34-4	4.43
Methyl iodide cIodomethaned.....	74-88-4	2,732
Methyl isoamyl ketone.....	110-12-3	6,000
Methyl isobutyl carbinol.....	108-11-2	6,000
Methyl isobutyl ketone cMIBK; Hexoned.....	108-10-1	6,000
Methyl isocyanate.....	624-83-9	11
Methyl methacrylate.....	80-62-6	6,000
N-Methyl-N[-nitro-N-nitrosoguanidine cMNNGd.....	70-25-7	0.37
Methyl parathion.....	298-00-0	47.1

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level clbs/yr
α-Methyl styrene.....	98-83-9	6,000
Methyl tert-butyl ether cMTBE.....	1634-04-4	6,000
Metribuzin.....	21087-64-9	1,176
Mevinphos cPhosdrind.....	7786-34-7	21.2
Mirex.....	2385-85-5	0.174
Molybdenum, as Mo, metal and insoluble compounds.....	7439-98-7 ²	2,353
Molybdenum, as Mo, soluble compounds.....	7439-98-7 ²	1,176
Monocrotophos.....	6923-22-4	58.8
Morpholine.....	110-91-8	6,000
Mustard gas.....	505-60-2	1.22
Myleran c1,4-Butanediol dimethanesulphonate; Busulphand.....	55-98-1	1.22
Naled.....	300-76-5	706
Naphthalene.....	91-20-3	6,000
2-Naphthylamine.....	91-59-8	1.22
Nickel and compounds, as Ni.....	7440-02-0 ²	3.42
Nickel carbonyl, as Ni.....	13463-39-3	3.42
Nickel subsulfide, as Ni.....	12035-72-2	1.85
Nitric acid.....	7697-37-2	1,213
Nitrioltriacetic acid.....	139-13-9	592
p-Nitroaniline.....	100-01-6	706
Nitrobenzene.....	98-95-3	1,185
4-Nitrobiphenyl.....	92-93-3	6,000
p-Nitrochlorobenzene.....	100-00-5	152
Nitroethane.....	79-24-3	6,000
Nitrogen mustards c2,2[-Dichloro-N-methyldiethylamined.....	51-75-2	1.22
³ Nitrogen oxides.....	²	10,000
Nitromethane.....	75-52-5	6,000
4-Nitrophenol.....	100-02-7	6,000
1-Nitropropane.....	108-03-2	6,000
2-Nitropropane.....	79-46-9	1.22
1-Nitropyrene.....	5522-43-0	8.08
N-Nitrosodi-n-butylamine.....	924-16-3	0.555
N-Nitrosodiethanolamine.....	1116-54-7	1.11
N-Nitrosodiethylamine.....	55-18-5	0.0207
N-Nitrosodimethylamine.....	62-75-9	0.0635
N-Nitrosodi-n-propylamine.....	621-64-7	0.444
N-Nitroso-N-ethylurea.....	759-73-9	0.115
N-Nitroso-N-methylurea.....	684-93-5	0.0261
N-Nitrosomethylvinylamine.....	4549-40-0	1.22
N-Nitrosomorpholine.....	59-89-2	0.468
N[-Nitrosornicotine.....	16543-55-8	1.22
N-Nitrosopiperidine.....	100-75-4	0.329
N-Nitrosopyrrolidine.....	930-55-2	1.46
N-Nitrososarcosine.....	13256-22-9	1.22
Nitrotoluene, mixtures and isomers.....	88-72-2 ²	2,639
Nitrous oxide.....	10024-97-2	6,000
Octachloronaphthalene.....	2234-13-1	23.5
Octachlorostyrene.....	29082-74-4	10
Octane call isomersd.....	111-65-9 ²	100,000
Oestradiol cEstradiold.....	50-28-2	0.0808
Oxalic acid.....	144-62-7	235
p,p[-Oxybis cbenzenesulfonyl hydrazided.....	80-51-3	23.5
Paraquat crespirable sizesd cParaquat chlorided.....	1910-42-5 ²	23.5
Parathion.....	56-38-2	23.5
Pentachlorobenzene.....	608-93-5	10
Pentachloronaphthalene.....	1321-64-8	118
Pentachloronitrobenzene cQuintobenzene; PCNBd.....	82-68-8	118
Pentachlorophenol cPCPd.....	87-86-5	118
Pentane, all isomers.....	78-78-4 ²	100,000
Pentyl Acetate cmixtures and isomersd.....	628-63-7 ²	6,000
³ Perchloroethylene cTetrachloroethylened.....	127-18-4	151
Perchloromethyl mercaptan.....	594-42-3	179

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level cbs/yr
Perfluoroisobutylene.....	382-21-8	26.7
Persulfates cAmmonium, Potassium, Sodiumd.....	7727-54-0 ²	23.5
Perylene.....	198-55-0	10
Phenazopyridine and phenazopyridine hydrochloride.....	136-40-3 ²	18.1
Phenol.....	108-95-2	4,528
Phenolphthalein.....	77-09-8	1.22
Phenothiazine.....	92-84-2	1,176
Phenylenediamine cmixtures and isomersd.....	106-50-3	23.5
Phenyl ether vapor.....	101-84-8	1,638
Phenyl glycidyl ether cPGEd.....	122-60-1	145
Phenylhydrazine.....	100-63-0	104
Phenyl mercaptan.....	108-98-5	530
Phenytol and sodium salt of phenytol.....	57-41-0 ²	1.22
Phorate.....	298-02-2	11.8
Phosgene.....	75-44-5	95.2
³ Phosphine.....	7803-51-2	98.2
Phosphoric acid.....	7664-38-2	235
Phosphorus cyellowd.....	7723-14-0	23.8
Phosphorus oxychloride.....	10025-87-3	148
³ Phosphorus pentachloride.....	10026-13-8	200
Phosphorus pentasulfide.....	1314-80-3	235
³ Phosphorus trichloride.....	7719-12-2	264
Phthalic anhydride.....	85-44-9	1,425
Picric acid.....	88-89-1	23.5
Pindone.....	83-26-1	23.5
Platinum cmetald.....	7440-06-4	235
Platinum, soluble salts, as Pt.....	7440-06-4 ²	0.471
Polybrominated biphenyls cPBBs; Bromodiphenylsd.....	59536-65-1 ²	0.103
Polychlorinated biphenyls cPCBs; Chlorodiphenyls; Arochlord.....	1336-36-3 ²	0.05
Polycyclic organic matter cPOMd.....		125
Potassium hydroxide.....	1310-58-3	654
³ Primary particulate matter.....		10,000
Primary PM _{2.5} , Including filterable and condensable components.....		10,000
Primary PM ₁₀ , Including filterable and condensable components.....		10,000
Procarbazine and procarbazine hydrochloride.....	366-70-1 ²	0.222
1,3-Propane sultone.....	1120-71-4	1.29
Propargyl alcohol.....	107-19-7	539
β-Propiolactone.....	57-57-8	0.222
Propionaldehyde.....	123-38-6	6,000
Propionic acid.....	79-09-4	6,000
Propoxur cBaygond.....	114-26-1	118
Propylene dichloride c1,2-Dichloropropaned.....	78-87-5	355
Propylene glycol monomethyl ether cPGMED.....	07-98-2	6,000
Propylene oxide.....	75-56-9	240
Propylenimine c2-Methyl aziridine; Propylene imined.....	75-55-8	1.22
Propylthiouracil.....	51-52-5	3.06
Pyrethrum.....	8003-34-7	1,176
Pyridine.....	110-86-1	3,373
Quinoline.....	91-22-5	6,000
Quinone.....	106-51-4	104
Resorcinol.....	108-46-3	6,000
Rhodium cmetald and insoluble compounds, as Rh.....	7440-16-6 ²	235
Rhodium, soluble compounds, as Rh.....	7440-16-6 ²	2.35
Rotenone ccommerciald.....	83-79-4	1,176
Safrole.....	94-59-7	14.1
Selenium and compounds, as Se.....	7782-49-2 ²	47.1
³ Silicon tetrahydride cSilaned.....	7803-62-5	1,545
Sodium Azide, as sodium azide or hydrazoic acid vapor.....	26628-22-8	95.7
Sodium bisulfite.....	7631-90-5	1,176
Sodium fluoroacetate.....	62-74-8	11.8
Sodium hydroxide.....	1310-73-2	654
Sodium metabisulfite.....	7681-57-4	1,176

Table 1
Reporting Levels for Calendar Years 2004 and Later (Continued)

Air Contaminant Name	CAS Number¹	Reporting Level lbs/yr
³ Stibine cAntimony hydrided.....	7803-52-3	120
Stoddard solvent cMineral spiritsd.....	8052-41-3	6,000
Streptozotocin.....	18883-66-4	0.0287
Strong inorganic acid mists containing sulfuric acid c>35% by weightd.....	7664-93-9 ²	1.22
Strychnine.....	57-24-9	35.3
Styrene oxide.....	96-09-3	6,000
Styrene, monomer.....	100-42-5	6,000
Sulfometuron methyl.....	74222-97-2	1,176
Sulfotep cTEDPd.....	3689-24-5	47.1
³ Sulfur dioxide.....	7446-09-5	10,000
Sulfur monochloride.....	10025-67-9	1,806
³ Sulfur tetrafluoride.....	7783-60-0	145
Sulfuric acid.....	7664-93-9	235
³ Sulfuryl fluoride.....	2699-79-8	4,911
Sulprofos.....	35400-43-2	235
Talc, containing no asbestos fibers.....	14807-96-6	471
Tantalum, metal and oxide dusts, as Ta.....	7440-25-7	1,176
Tellurium and compounds, except hydrogen telluride, as Te.....	13494-80-9 ²	23.5
TEPP.....	107-49-3	11.8
Terphenyls.....	26140-60-3 ²	1,635
1,2,3,4-Tetrachlorobenzene.....	634-66-2	10
1,2,4,5-Tetrachlorobenzene.....	95-94-3	10
2,3,7,8-Tetrachlorodibenzo-p-dioxin cDioxin; 2,3,7,8-TCDDd, as dioxin equivalents.....	1746-01-6 ²	0.00005
1,1,2,2-Tetrachloroethane.....	79-34-5	1,615
Tetrachloronaphthalene.....	1335-88-2	471
1,1,1,2-Tetrafluoroethane.....	811-97-2	6,000
Tetrafluoroethylene.....	116-14-3	1.22
Tetrahydrofuran.....	109-99-9	6,000
Tetranitromethane.....	509-14-8	1.22
Thallium, elemental and soluble compounds, as Tl.....	7440-28-0 ²	23.5
³ Thionyl chloride.....	7719-09-7	1,592
Thiourea.....	62-56-6	42.3
Thiram.....	137-26-8	235
Tin organic compounds, as Sn.....	7440-31-5 ²	23.5
Tin, metal oxides and inorganic compounds, except tin hydride, as Sn.....	7440-31-5 ²	471
Titanium tetrachloride.....	7550-45-0	6,000
Toluene cToluold.....	108-88-3	6,000
2,4-{2,6-Toluene diisocyanate cmixtures and isomersd cTDId.....	584-84-9 ²	6.22
m- and p-Toluidine.....	108-44-1	2,062
o-Toluidine and o-toluidine hydrochloride and mixed isomers.....	95-53-4 ²	17.4
³ Total reduced sulfur and reduced sulfur compounds.....	²	10,000
Tributyl phosphate.....	126-73-8	513
Tributyl tin.....	56-35-9	10
1,2,4-Trichlorobenzene.....	120-82-1	6,000
1,1,2-Trichloroethane.....	79-00-5	6,000
Trichloroethylene cTrichloroethened.....	79-01-6	444
Trichloronaphthalene.....	1321-65-9	1,176
2,4,5-Trichlorophenol.....	95-95-4	6,000
2,4,6-Trichlorophenol.....	88-06-2	287
1,2,3-Trichloropropane.....	96-18-4	1.22
Triethanolamine.....	102-71-6	1,176
Triethylamine.....	121-44-8	974
Trifluralin.....	1582-09-8	6,000
1,3,5-Triglycidyl-s-triazinetriene.....	2451-62-9	11.8
Trimellitic anhydride.....	552-30-7	13.1
Trimethyl benzene, cmixtures and isomersd.....	25551-13-7 ²	6,000
Trimethylamine.....	75-50-3	2,844
2,2,4-Trimethylpentane.....	540-84-1	6,000
2,4,6-Trinitrotoluene cTNTd.....	118-96-7	23.5
Triorthocresyl phosphate.....	78-30-8	23.5
Triphenyl phosphate.....	115-86-6	706
Trisc1-aziridinylphosphine sulfide cThiotepad.....	52-24-4	0.261

Trisc2,3-dibromopropyl phosphated	126-72-7	1.35
Tungsten - metal and insoluble compounds, as W	7440-33-7 ²	1,176
Tungsten - soluble compounds, as W	7440-33-7 ²	235
Uranium natural, soluble and insoluble compounds, as U	7440-61-1 ²	47.1
Urethane cEthyl carbamated	51-79-6	3.06
n-Valeraldehyde	110-62-3	6,000
Vanadium pentoxide, as V ₂ O ₅ , respirable dust and fume	1314-62-1	11.8
Vinyl acetate	108-05-4	6,000
Vinyl bromide	593-60-2	515
Vinyl chloride	75-01-4	101
Vinyl cyclohexene dioxide c4-Vinyl-1-cyclohexene diepoxided	106-87-6	1.22
4-Vinyl cyclohexene	100-40-3	104
Vinyl fluoride	75-02-5	443
Vinylidene chloride c1,1-Dichloroethylened	75-35-4	4,665
Vinylidene fluoride	75-38-7	100,000
Vinyl toluene	25013-15-4	6,000
^{3,6} Volatile organic compounds cReactive organic gasesd	²	6,000
Warfarin	81-81-2	23.5
Xylene cmixtures and isomersd cXylol; Dimethyl Benzened	1330-20-7 ²	6,000
m-Xylene- α,α -diamine	1477-55-0	32.7
Xylidine cmixtures and isomersd	1300-73-8 ²	583
Yttrium metal and compounds, as Y	7440-65-5 ²	235
Zeolites cErionited	66733-21-9	1.22
Zirconium and compounds, as Zr	7440-67-7 ²	1,176

¹Chemical Abstract Service or CAS number refers to the unique chemical abstracts service registry number assigned to a specific chemical, isomer or mixture of chemicals or isomers and recorded in the CAS chemical registry system by the Chemical Abstracts Service, PO Box 3012, Columbus, OH 43210, phone 1-614-447-3600.

²Indicates contaminants for which multiple CAS numbers may apply. For contaminants listed as a metal and its compounds, the given CAS number refers to the metal.

³Indicates contaminants for which a fee will be assessed under s. NR 410.04. Emissions of all compounds listed in s. NR 400.02c162dcbd shall be included when determining fees for volatile organic compounds.

⁴Indicates compounds included in the glycol ethers group. In addition to being reported individually when a compound[s] emissions are above the reporting level, the emissions of these compounds are included in the glycol ethers emission total reported along with emissions of the many other such compounds not listed individually by name.

⁵Glycol ethers include mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol, R-cOCH₂CH₂n-OR[

where:

n=1, 2 or 3

R=alkyl C7 or less or

R=phenyl or alkyl substituted phenyl

R[=H or alkyl C7 or less or OR[consists of carboxylic acid ester, sulfate, phosphate, nitrate or sulfonate.

⁶Organic compounds that are not VOC and should not be considered or included here are specified in s. NR 400.02 c162d cad. Emissions of organic compounds specified in s. NR 400.02 c162d cbd shall be considered to determine if the reporting level for VOC is exceeded. Emissions of these compounds, however, shall be reported separately as the individual compound if the reporting level for VOC is exceeded.

⁷Any amount of emissions of this compound shall be reported if the reporting level for VOC emissions is exceeded. See footnote 6 for how to determine if the reporting level for VOC emissions is exceeded.

History: Cr. Register, May, 1993, No. 449, eff. 6-1-93; CR 21-072: am. c1d, c2d intro.d, cbd, r. c2d ccd, r. and recr. c2d cdd, r. c2d ced, am. c2d cfd, r. c2d cgd, chd, r. and recr. c3d to c5d, r. c6d, Table 1 renum. from NR 438.03 amd am. Register July 2022 No. 798, eff. 8-1-22; correction in Table 1 made under s. 35.17, Stats., Register July 2022 No. 798.