

# Code of Federal Regulations

## Title 40 - Protection of Environment

Volume: 15

Date: 2011-07-01

Original Date: 2011-07-01

Title: Section 68.130 - List of substances.

Context: Title 40 - Protection of Environment. CHAPTER I - ENVIRONMENTAL PROTECTION AGENCY (CONTINUED). SUBCHAPTER C - AIR PROGRAMS (CONTINUED). PART 68 - CHEMICAL ACCIDENT PREVENTION PROVISIONS. Subpart F - Regulated Substances for Accidental Release Prevention.

### § 68.130 List of substances.

(a) Regulated toxic and flammable substances under section 112(r) of the Clean Air Act are the substances listed in Tables 1, 2, 3, and 4. Threshold quantities for listed toxic and flammable substances are specified in the tables.

(b) The basis for placing toxic and flammable substances on the list of regulated substances are explained in the notes to the list.

Table 1 to § 68.130—List of Regulated Toxic Substances and Threshold Quantities for Accidental Release Prevention  
[Alphabetical Order—77 Substances]

| Chemical name   | CAS No.    | Threshold quantity (lbs) | Basis for listing |
|---|------------|--------------------------|-------------------|
| Acrolein [2-Propenal]   | 107-02-8   | 5,000                    | b                 |
| Acrylonitrile [2-Propenenitrile]  | 107-13-1   | 20,000                   | b                 |
| Acrylyl chloride [2-Propenoyl chloride]   | 814-68-6   | 5,000                    | b                 |
| Allyl alcohol [2-Propen-1-ol]   | 107-18-61  | 15,000                   | b                 |
| Allylamine [2-Propen-1-amine]   | 107-11-9   | 10,000                   | b                 |
| Ammonia (anhydrous)   | 7664-41-7  | 10,000                   | a, b              |
| Ammonia (conc 20% or greater)   | 7664-41-7  | 20,000                   | a, b              |
| Arsenous trichloride  | 7784-34-1  | 15,000                   | b                 |
| Arsine  | 7784-42-1  | 1,000                    | b                 |
| Boron trichloride [Borane, trichloro-]  | 10294-34-5 | 5,000                    | b                 |
| Boron trifluoride [Borane, trifluoro-]  | 7637-07-2  | 5,000                    | b                 |
| Boron trifluoride compound with methyl ether (1:1) [Boron, trifluoro [oxybis [metane]]-, T-4- | 353-42-4   | 15,000                   | b                 |
| Bromine   | 7726-95-6  | 10,000                   | a, b              |

|   |            |        |      |
|---|------------|--------|------|
| Carbon disulfide  | 75-15-0    | 20,000 | b    |
| Chlorine  | 7782-50-5  | 2,500  | a, b |
| Chlorine dioxide [Chlorine oxide (ClO <sub>2</sub> )]                         | 10049-04-4 | 1,000  | c    |
| Chloroform [Methane, trichloro-]  | 67-66-3    | 20,000 | b    |
| Chloromethyl ether [Methane, oxybis(chloro-)]                                 | 542-88-1   | 1,000  | b    |
| Chloromethyl methyl ether [Methane, chloromethoxy-]                           | 107-30-2   | 5,000  | b    |
| Crotonaldehyde [2-Butenal]  | 4170-30-3  | 20,000 | b    |
| Crotonaldehyde, (E)- [2-Butenal, (E)-]  | 123-73-9   | 20,000 | b    |
| Cyanogen chloride   | 506-77-4   | 10,000 | c    |
| Cyclohexylamine [Cyclohexanamine]   | 108-91-8   | 15,000 | b    |
| Diborane  | 19287-45-7 | 2,500  | b    |
| Dimethyldichlorosilane [Silane, dichlorodimethyl-]                            | 75-78-5    | 5,000  | b    |
| 1,1-Dimethylhydrazine [Hydrazine, 1,1-dimethyl-]                              | 57-14-7    | 15,000 | b    |
| Epichlorohydrin [Oxirane, (chloromethyl)-]                                    | 106-89-8   | 20,000 | b    |
| Ethylenediamine [1,2-Ethanediamine]   | 107-15-3   | 20,000 | b    |
| Ethyleneimine [Aziridine]   | 151-56-4   | 10,000 | b    |
| Ethylene oxide [Oxirane]  | 75-21-8    | 10,000 | a, b |
| Fluorine  | 7782-41-4  | 1,000  | b    |
| Formaldehyde (solution)   | 50-00-0    | 15,000 | b    |
| Furan   | 110-00-9   | 5,000  | b    |
| Hydrazine   | 302-01-2   | 15,000 | b    |
| Hydrochloric acid (conc 37% or greater)                                       | 7647-01-0  | 15,000 | d    |
| Hydrocyanic acid  | 74-90-8    | 2,500  | a, b |
| Hydrogen chloride (anhydrous) [Hydrochloric acid]                             | 7647-01-0  | 5,000  | a    |
| Hydrogen fluoride/Hydrofluoric acid (conc 50% or greater) [Hydrofluoric acid] | 7664-39-3  | 1,000  | a, b |
| Hydrogen selenide   | 7783-07-5  | 500    | b    |
| Hydrogen sulfide  | 7783-06-4  | 10,000 | a, b |

|  |            |        |      |
|--|------------|--------|------|
| Iron, pentacarbonyl- [Iron carbonyl (Fe(CO) <sub>5</sub> ), (TB-5-11)-]      | 13463-40-6 | 2,500  | b    |
| Isobutyronitrile [Propanenitrile, 2-methyl-]                                 | 78-82-0    | 20,000 | b    |
| Isopropyl chloroformate [Carbonochloridic acid, 1-methylethyl ester]         | 108-23-6   | 15,000 | b    |
| Methacrylonitrile [2-Propenenitrile, 2-methyl-]                              | 126-98-7   | 10,000 | b    |
| Methyl chloride [Methane, chloro-]   | 74-87-3    | 10,000 | a    |
| Methyl chloroformate [Carbonochloridic acid, methylester]                    | 79-22-1    | 5,000  | b    |
| Methyl hydrazine [Hydrazine, methyl-]  | 60-34-4    | 15,000 | b    |
| Methyl isocyanate [Methane, isocyanato-]                                     | 624-83-9   | 10,000 | a, b |
| Methyl mercaptan [Methanethiol]  | 74-93-1    | 10,000 | b    |
| Methyl thiocyanate [Thiocyanic acid, methyl ester]                           | 556-64-9   | 20,000 | b    |
| Methyltrichlorosilane [Silane, trichloromethyl-]                             | 75-79-6    | 5,000  | b    |
| Nickel carbonyl  | 13463-39-3 | 1,000  | b    |
| Nitric acid (conc 80% or greater)  | 7697-37-2  | 15,000 | b    |
| Nitric oxide [Nitrogen oxide (NO)]   | 10102-43-9 | 10,000 | b    |
| Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur trioxide] 1 | 8014-95-7  | 10,000 | e    |
| Peracetic acid [Ethaneperoxoic acid]   | 79-21-0    | 10,000 | b    |
| Perchloromethylmercaptan [Methanesulfonyl chloride, trichloro-]              | 594-42-3   | 10,000 | b    |
| Phosgene [Carbonic dichloride]   | 75-44-5    | 500    | a, b |
| Phosphine  | 7803-51-2  | 5,000  | b    |
| Phosphorus oxychloride [Phosphoryl chloride]                                 | 10025-87-3 | 5,000  | b    |
| Phosphorus trichloride [Phosphorous trichloride]                             | 7719-12-2  | 15,000 | b    |
| Piperidine   | 110-89-4   | 15,000 | b    |
| Propionitrile [Propanenitrile]   | 107-12-0   | 10,000 | b    |
| Propyl chloroformate [Carbonochloridic acid, propylester]                    | 109-61-5   | 15,000 | b    |
| Propyleneimine [Aziridine, 2-methyl-]  | 75-55-8    | 10,000 | b    |
| Propylene oxide [Oxirane, methyl-]   | 75-56-9    | 10,000 | b    |
| Sulfur dioxide (anhydrous)   | 7446-09-5  | 5,000  | a, b |
| Sulfur tetrafluoride [Sulfur fluoride (SF <sub>4</sub> ), (T-4)-]            | 7783-60-0  | 2,500  | b    |
|  | 7446-      |        |      |

|  |            |        |      |
|--|------------|--------|------|
| Sulfur trioxide  | 11-9       | 10,000 | a, b |
| Tetramethyllead [Plumbane, tetramethyl-]                                       | 75-74-1    | 10,000 | b    |
| Tetranitromethane [Methane, tetranitro-]                                       | 509-14-8   | 10,000 | b    |
| Titanium tetrachloride [Titanium chloride (TiCl <sub>4</sub> ) (T-4)-]         | 7550-45-0  | 2,500  | b    |
| Toluene 2,4-diisocyanate [Benzene, 2,4-diisocyanato-1-methyl-] 1               | 584-84-9   | 10,000 | a    |
| Toluene 2,6-diisocyanate [Benzene, 1,3-diisocyanato-2-methyl-] 1               | 91-08-7    | 10,000 | a    |
| Toluene diisocyanate (unspecified isomer) [Benzene, 1,3-diisocyanatomethyl-] 1 | 26471-62-5 | 10,000 | a    |
| Trimethylchlorosilane [Silane, chlorotrimethyl-]                               | 75-77-4    | 10,000 | b    |
| Vinyl acetate monomer [Acetic acid ethenyl ester]                              | 108-05-4   | 15,000 | b    |

1 The mixture exemption in § 68.115(b)(1) does not apply to the substance.

**Note:** Basis for Listing:

aMandated for listing by Congress.

bOn EHS list, vapor pressure 10 mmHg or greater.

cToxic gas.

dToxicity of hydrogen chloride, potential to release hydrogen chloride, and history of accidents.

eToxicity of sulfur trioxide and sulfuric acid, potential to release sulfur trioxide, and history of accidents.

Table 2 to § 68.130—List of Regulated Toxic Substances and Threshold Quantities for Accidental Release Prevention [CAS Number Order—77 Substances]

| CAS No. | Chemical name                                      | Threshold quantity (lbs) | Basis for listing |
|---------|--|--------------------------|-------------------|
| 50-00-0 | Formaldehyde (solution)                            | 15,000                   | b                 |
| 57-14-7 | 1,1-Dimethylhydrazine [Hydrazine, 1,1-dimethyl-]   | 15,000                   | b                 |
| 60-34-4 | Methyl hydrazine [Hydrazine, methyl-]              | 15,000                   | b                 |
| 67-66-3 | Chloroform [Methane, trichloro-]                   | 20,000                   | b                 |
| 74-87-3 | Methyl chloride [Methane, chloro-]                 | 10,000                   | a                 |
| 74-90-8 | Hydrocyanic acid                                   | 2,500                    | a, b              |
| 74-93-1 | Methyl mercaptan [Methanethiol]                    | 10,000                   | b                 |
| 75-15-0 | Carbon disulfide                                   | 20,000                   | b                 |
| 75-21-8 | Ethylene oxide [Oxirane]                           | 10,000                   | a, b              |
| 75-44-5 | Phosgene [Carbonic dichloride]                     | 500                      | a, b              |
| 75-55-8 | Propyleneimine [Aziridine, 2-methyl-]              | 10,000                   | b                 |
| 75-56-9 | Propylene oxide [Oxirane, methyl-]                 | 10,000                   | b                 |
| 75-74-1 | Tetramethyllead [Plumbane, tetramethyl-]           | 10,000                   | b                 |
| 75-77-4 | Trimethylchlorosilane [Silane, chlorotrimethyl-]   | 10,000                   | b                 |
| 75-78-5 | Dimethyldichlorosilane [Silane, dichlorodimethyl-] | 5,000                    | b                 |
| 75-79-6 | Methyltrichlorosilane [Silane, trichloromethyl-]   | 5,000                    | b                 |

|           |  |        |      |
|-----------|--|--------|------|
| 78-82-0   | Isobutyronitrile [Propanenitrile, 2-methyl-]   | 20,000 | b    |
| 79-21-0   | Peracetic acid [Ethaneperoxoic acid]   | 10,000 | b    |
| 79-22-1   | Methyl chloroformate [Carbonochloridic acid, methylester]                                    | 5,000  | b    |
| 91-08-7   | Toluene 2,6-diisocyanate [Benzene, 1,3-diisocyanato-2-methyl-]1                              | 10,000 | a    |
| 106-89-8  | Epichlorohydrin [Oxirane, (chloromethyl)-]   | 20,000 | b    |
| 107-02-8  | Acrolein [2-Propenal]  | 5,000  | b    |
| 107-11-9  | Allylamine [2-Propen-1-amine]  | 10,000 | b    |
| 107-12-0  | Propionitrile [Propanenitrile]   | 10,000 | b    |
| 107-13-1  | Acrylonitrile [2-Propenenitrile]   | 20,000 | b    |
| 107-15-3  | Ethylenediamine [1,2-Ethanediamine]  | 20,000 | b    |
| 107-18-6  | Allyl alcohol [2-Propen-1-ol]  | 15,000 | b    |
| 107-30-2  | Chloromethyl methyl ether [Methane, chloromethoxy-]  | 5,000  | b    |
| 108-05-4  | Vinyl acetate monomer [Acetic acid ethenyl ester]  | 15,000 | b    |
| 108-23-6  | Isopropyl chloroformate [Carbonochloridic acid, 1-methylethyl ester]                         | 15,000 | b    |
| 108-91-8  | Cyclohexylamine [Cyclohexanamine]  | 15,000 | b    |
| 109-61-5  | Propyl chloroformate [Carbonochloridic acid, propylester]                                    | 15,000 | b    |
| 110-00-9  | Furan  | 5,000  | b    |
| 110-89-4  | Piperidine   | 15,000 | b    |
| 123-73-9  | Crotonaldehyde, (E)- [2-Butenal, (E)-]   | 20,000 | b    |
| 126-98-7  | Methacrylonitrile [2-Propenenitrile, 2-methyl-]  | 10,000 | b    |
| 151-56-4  | Ethyleneimine [Aziridine]  | 10,000 | b    |
| 302-01-2  | Hydrazine  | 15,000 | b    |
| 353-42-4  | Boron trifluoride compound with methyl ether (1:1) [Boron, trifluoro[oxybis(methane)]-, T-4- | 15,000 | b    |
| 506-77-4  | Cyanogen chloride  | 10,000 | c    |
| 509-14-8  | Tetranitromethane [Methane, tetranitro-]   | 10,000 | b    |
| 542-88-1  | Chloromethyl ether [Methane, oxybis(chloro-)]  | 1,000  | b    |
| 556-64-9  | Methyl thiocyanate [Thiocyanic acid, methyl ester]   | 20,000 | b    |
| 584-84-9  | Toluene 2,4-diisocyanate [Benzene, 2,4-diisocyanato-1-methyl-]1                              | 10,000 | a    |
| 594-42-3  | Perchloromethylmercaptan [Methanesulfenyl chloride, trichloro-]                              | 10,000 | b    |
| 624-83-9  | Methyl isocyanate [Methane, isocyanato-]   | 10,000 | a, b |
| 814-68-6  | Acrylyl chloride [2-Propenoyl chloride]  | 5,000  | b    |
| 4170-30-3 | Crotonaldehyde [2-Butenal]   | 20,000 | b    |
| 7446-09-5 | Sulfur dioxide (anhydrous)   | 5,000  | a, b |
| 7446-11-9 | Sulfur trioxide  | 10,000 | a, b |
| 7550-45-0 | Titanium tetrachloride [Titanium chloride (TiCl4) (T-4)-]                                    | 2,500  | b    |
| 7637-07-2 | Boron trifluoride [Borane, trifluoro-]   | 5,000  | b    |

|            |   |        |      |
|------------|---|--------|------|
| 7647-01-0  | Hydrochloric acid (conc 37% or greater)   | 15,000 | d    |
| 7647-01-0  | Hydrogen chloride (anhydrous) [Hydrochloric acid]   | 5,000  | a    |
| 7664-39-3  | Hydrogen fluoride/Hydrofluoric acid (conc 50% or greater) [Hydrofluoric acid]             | 1,000  | a, b |
| 7664-41-7  | Ammonia (anhydrous)   | 10,000 | a, b |
| 7664-41-7  | Ammonia (conc 20% or greater)   | 20,000 | a, b |
| 7697-37-2  | Nitric acid (conc 80% or greater)   | 15,000 | b    |
| 7719-12-2  | Phosphorus trichloride [Phosphorous trichloride]  | 15,000 | b    |
| 7726-95-6  | Bromine   | 10,000 | a, b |
| 7782-41-4  | Fluorine  | 1,000  | b    |
| 7782-50-5  | Chlorine  | 2,500  | a, b |
| 7783-06-4  | Hydrogen sulfide  | 10,000 | a, b |
| 7783-07-5  | Hydrogen selenide   | 500    | b    |
| 7783-60-0  | Sulfur tetrafluoride [Sulfur fluoride (SF <sub>4</sub> ), (T-4)-]                         | 2,500  | b    |
| 7784-34-1  | Arsenous trichloride  | 15,000 | b    |
| 7784-42-1  | Arsine  | 1,000  | b    |
| 7803-51-2  | Phosphine   | 5,000  | b    |
| 8014-95-7  | Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur trioxide] <sup>1</sup>   | 10,000 | e    |
| 10025-87-3 | Phosphorus oxychloride [Phosphoryl chloride]  | 5,000  | b    |
| 10049-04-4 | Chlorine dioxide [Chlorine oxide (ClO <sub>2</sub> )]                                     | 1,000  | c    |
| 10102-43-9 | Nitric oxide [Nitrogen oxide (NO)]  | 10,000 | b    |
| 10294-34-5 | Boron trichloride [Borane, trichloro-]  | 5,000  | b    |
| 13463-39-3 | Nickel carbonyl   | 1,000  | b    |
| 13463-40-6 | Iron, pentacarbonyl- [Iron carbonyl (Fe(CO) <sub>5</sub> ), (TB-5-11)-]                   | 2,500  | b    |
| 19287-45-7 | Diborane  | 2,500  | b    |
| 26471-62-5 | Toluene diisocyanate (unspecified isomer) [Benzene, 1,3-diisocyanatomethyl-] <sup>1</sup> | 10,000 | a    |

<sup>1</sup> The mixture exemption in § 68.115(b)(1) does not apply to the substance.

**Note:** Basis for Listing:

aMandated for listing by Congress.

bOn EHS list, vapor pressure 10 mmHg or greater.

cToxic gas.

dToxicity of hydrogen chloride, potential to release hydrogen chloride, and history of accidents.

eToxicity of sulfur trioxide and sulfuric acid, potential to release sulfur trioxide, and history of accidents.

Table 3 to § 68.130—List of Regulated Flammable Substances 1 and Threshold Quantities for Accidental Release Prevention

[Alphabetical Order—63 Substances]

| Chemical name      | CAS No. | Threshold quantity (lbs) | Basis for listing |
|--------------------|---------|--------------------------|-------------------|
| Acetaldehyde       | 75-07-0 | 10,000                   | g                 |
| Acetylene [Ethyne] | 74-86-2 | 10,000                   | f                 |

|   |            |        |   |
|---|------------|--------|---|
| Bromotrifluorethylene [Ethene, bromotrifluoro-] | 598-73-2   | 10,000 | f |
| 1,3-Butadiene                                   | 106-99-0   | 10,000 | f |
| Butane  | 106-97-8   | 10,000 | f |
| 1-Butene  | 106-98-9   | 10,000 | f |
| 2-Butene  | 107-01-7   | 10,000 | f |
| Butene  | 25167-67-3 | 10,000 | f |
| 2-Butene-cis                                    | 590-18-1   | 10,000 | f |
| 2-Butene-trans [2-Butene, (E)]                  | 624-64-6   | 10,000 | f |
| Carbon oxysulfide [Carbon oxide sulfide (COS)]  | 463-58-1   | 10,000 | f |
| Chlorine monoxide [Chlorine oxide]              | 7791-21-1  | 10,000 | f |
| 2-Chloropropylene [1-Propene, 2-chloro-]        | 557-98-2   | 10,000 | g |
| 1-Chloropropylene [1-Propene, 1-chloro-]        | 590-21-6   | 10,000 | g |
| Cyanogen [Ethanedinitrile]                      | 460-19-5   | 10,000 | f |
| Cyclopropane                                    | 75-19-4    | 10,000 | f |
| Dichlorosilane [Silane, dichloro-]              | 4109-96-0  | 10,000 | f |
| Difluoroethane [Ethane, 1,1-difluoro-]          | 75-37-6    | 10,000 | f |
| Dimethylamine [Methanamine, N-methyl-]          | 124-40-3   | 10,000 | f |
| 2,2-Dimethylpropane [Propane, 2,2-dimethyl-]    | 463-82-1   | 10,000 | f |
| Ethane  | 74-84-0    | 10,000 | f |
| Ethyl acetylene [1-Butyne]                      | 107-00-6   | 10,000 | f |
| Ethylamine [Ethanamine]                         | 75-04-7    | 10,000 | f |
| Ethyl chloride [Ethane, chloro-]                | 75-00-3    | 10,000 | f |
| Ethylene [Ethene]                               | 74-85-1    | 10,000 | f |
| Ethyl ether [Ethane, 1,1'-oxybis-]              | 60-29-7    | 10,000 | g |
| Ethyl mercaptan [Ethanethiol]                   | 75-08-1    | 10,000 | g |
| Ethyl nitrite [Nitrous acid, ethyl ester]       | 109-95-5   | 10,000 | f |
| Hydrogen  | 1333-74-0  | 10,000 | f |
| Isobutane [Propane, 2-methyl]                   | 75-28-5    | 10,000 | f |
| Isopentane [Butane, 2-methyl-]                  | 78-78-4    | 10,000 | g |
| Isoprene [1,3-Butadiene, 2-methyl-]             | 78-79-5    | 10,000 | g |
| Isopropylamine [2-Propanamine]                  | 75-31-0    | 10,000 | g |
| Isopropyl chloride [Propane, 2-chloro-]         | 75-29-6    | 10,000 | g |
| Methane   | 74-82-8    | 10,000 | f |
| Methylamine [Methanamine]                       | 74-89-5    | 10,000 | f |
| 3-Methyl-1-butene                               | 563-45-1   | 10,000 | f |
| 2-Methyl-1-butene                               | 563-46-2   | 10,000 | g |
| Methyl ether [Methane, oxybis-]                 | 115-10-6   | 10,000 | f |
| Methyl formate [Formic acid, methyl ester]      | 107-31-3   | 10,000 | g |
|   |            |        |   |

|  |            |        |      |
|--|------------|--------|------|
| 2-Methylpropene [1-Propene, 2-methyl-]             | 115-11-7   | 10,000 | f    |
| 1,3-Pentadiene                                     | 504-60-9   | 10,000 | f    |
| Pentane  | 109-66-0   | 10,000 | g    |
| 1-Pentene  | 109-67-1   | 10,000 | g    |
| 2-Pentene, (E)-                                    | 646-04-8   | 10,000 | g    |
| 2-Pentene, (Z)-                                    | 627-20-3   | 10,000 | g    |
| Propadiene [1,2-Propadiene]                        | 463-49-0   | 10,000 | f    |
| Propane  | 74-98-6    | 10,000 | f    |
| Propylene [1-Propene]                              | 115-07-1   | 10,000 | f    |
| Propyne [1-Propyne]                                | 74-99-7    | 10,000 | f    |
| Silane   | 7803-62-5  | 10,000 | f    |
| Tetrafluoroethylene [Ethene, tetrafluoro-]         | 116-14-3   | 10,000 | f    |
| Tetramethylsilane [Silane, tetramethyl-]           | 75-76-3    | 10,000 | g    |
| Trichlorosilane [Silane, trichloro-]               | 10025-78-2 | 10,000 | g    |
| Trifluorochloroethylene [Ethene, chlorotrifluoro-] | 79-38-9    | 10,000 | f    |
| Trimethylamine [Methanamine, N,N-dimethyl-]        | 75-50-3    | 10,000 | f    |
| Vinyl acetylene [1-Buten-3-yne]                    | 689-97-4   | 10,000 | f    |
| Vinyl chloride [Ethene, chloro-]                   | 75-01-4    | 10,000 | a, f |
| Vinyl ethyl ether [Ethene, ethoxy-]                | 109-92-2   | 10,000 | g    |
| Vinyl fluoride [Ethene, fluoro-]                   | 75-02-5    | 10,000 | f    |
| Vinylidene chloride [Ethene, 1,1-dichloro-]        | 75-35-4    | 10,000 | g    |
| Vinylidene fluoride [Ethene, 1,1-difluoro-]        | 75-38-7    | 10,000 | f    |
| Vinyl methyl ether [Ethene, methoxy-]              | 107-25-5   | 10,000 | f    |

1 A flammable substance when used as a fuel or held for sale as a fuel at a retail facility is excluded from all provisions of this part (see § 68.126).

**Note:** Basis for Listing:

a Mandated for listing by Congress.

f Flammable gas.

g Volatile flammable liquid.

Table 4 to § 68.130—List of Regulated Flammable Substances 1 and Threshold Quantities for Accidental Release Prevention

[CAS Number Order—63  
Substances]

| CAS No. | Chemical name                      | CAS No. | Threshold quantity (lbs) | Basis for listing |
|---------|------------------------------------|---------|--------------------------|-------------------|
| 60-29-7 | Ethyl ether [Ethane, 1,1'-oxybis-] | 60-29-7 | 10,000                   | g                 |
| 74-82-8 | Methane                            | 74-82-8 | 10,000                   | f                 |
| 74-84-0 | Ethane                             | 74-84-0 | 10,000                   | f                 |
| 74-85-1 | Ethylene [Ethene]                  | 74-85-1 | 10,000                   | f                 |
| 74-86-2 | Acetylene [Ethyne]                 | 74-86-2 | 10,000                   | f                 |
| 74-89-5 | Methylamine [Methanamine]          | 74-89-5 | 10,000                   | f                 |
|         |                                    |         |                          |                   |



|          |  |          |        |      |
|----------|--|----------|--------|------|
| 74-98-6  | Propane  | 74-98-6  | 10,000 | f    |
| 74-99-7  | Propyne [1-Propyne]                                | 74-99-7  | 10,000 | f    |
| 75-00-3  | Ethyl chloride [Ethane, chloro-]                   | 75-00-3  | 10,000 | f    |
| 75-01-4  | Vinyl chloride [Ethene, chloro-]                   | 75-01-4  | 10,000 | a, f |
| 75-02-5  | Vinyl fluoride [Ethene, fluoro-]                   | 75-02-5  | 10,000 | f    |
| 75-04-7  | Ethylamine [Ethanamine]                            | 75-04-7  | 10,000 | f    |
| 75-07-0  | Acetaldehyde                                       | 75-07-0  | 10,000 | g    |
| 75-08-1  | Ethyl mercaptan [Ethanethiol]                      | 75-08-1  | 10,000 | g    |
| 75-19-4  | Cyclopropane                                       | 75-19-4  | 10,000 | f    |
| 75-28-5  | Isobutane [Propane, 2-methyl]                      | 75-28-5  | 10,000 | f    |
| 75-29-6  | Isopropyl chloride [Propane, 2-chloro-]            | 75-29-6  | 10,000 | g    |
| 75-31-0  | Isopropylamine [2-Propanamine]                     | 75-31-0  | 10,000 | g    |
| 75-35-4  | Vinylidene chloride [Ethene, 1,1-dichloro-]        | 75-35-4  | 10,000 | g    |
| 75-37-6  | Difluoroethane [Ethane, 1,1-difluoro-]             | 75-37-6  | 10,000 | f    |
| 75-38-7  | Vinylidene fluoride [Ethene, 1,1-difluoro-]        | 75-38-7  | 10,000 | f    |
| 75-50-3  | Trimethylamine [Methanamine, N, N-dimethyl-]       | 75-50-3  | 10,000 | f    |
| 75-76-3  | Tetramethylsilane [Silane, tetramethyl-]           | 75-76-3  | 10,000 | g    |
| 78-78-4  | Isopentane [Butane, 2-methyl-]                     | 78-78-4  | 10,000 | g    |
| 78-79-5  | Isoprene [1,3,-Butadiene, 2-methyl-]               | 78-79-5  | 10,000 | g    |
| 79-38-9  | Trifluorochloroethylene [Ethene, chlorotrifluoro-] | 79-38-9  | 10,000 | f    |
| 106-97-8 | Butane   | 106-97-8 | 10,000 | f    |
| 106-98-9 | 1-Butene   | 106-98-9 | 10,000 | f    |
| 196-99-0 | 1,3-Butadiene                                      | 106-99-0 | 10,000 | f    |
| 107-00-6 | Ethyl acetylene [1-Butyne]                         | 107-00-6 | 10,000 | f    |
| 107-01-7 | 2-Butene   | 107-01-7 | 10,000 | f    |
| 107-25-5 | Vinyl methyl ether [Ethene, methoxy-]              | 107-25-5 | 10,000 | f    |
| 107-31-3 | Methyl formate [Formic acid, methyl ester]         | 107-31-3 | 10,000 | g    |
| 109-66-0 | Pentane  | 109-66-0 | 10,000 | g    |
| 109-67-1 | 1-Pentene  | 109-67-1 | 10,000 | g    |
| 109-92-2 | Vinyl ethyl ether [Ethene, ethoxy-]                | 109-92-  | 10,000 | g    |

|           |  |           |        |   |
|-----------|--|-----------|--------|---|
|           |  | 2         |        |   |
| 109-95-5  | Ethyl nitrite [Nitrous acid, ethyl ester]        | 109-95-5  | 10,000 | f |
| 115-07-1  | Propylene [1-Propene]                            | 115-07-1  | 10,000 | f |
| 115-10-6  | Methyl ether [Methane, oxybis-]                  | 115-10-6  | 10,000 | f |
| 115-11-7  | 2-Methylpropene [1-Propene, 2-methyl-]           | 115-11-7  | 10,000 | f |
| 116-14-3  | Tetrafluoroethylene [Ethene, tetrafluoro-]       | 116-14-3  | 10,000 | f |
| 124-40-3  | Dimethylamine [Methanamine, N-methyl-]           | 124-40-3  | 10,000 | f |
| 460-19-5  | Cyanogen [Ethanedinitrile]                       | 460-19-5  | 10,000 | f |
| 463-49-0  | Propadiene [1,2-Propadiene]                      | 463-49-0  | 10,000 | f |
| 463-58-1  | Carbon oxysulfide [Carbon oxide sulfide (COS)]   | 463-58-1  | 10,000 | f |
| 463-82-1  | 2,2-Dimethylpropane [Propane, 2,2-dimethyl-]     | 463-82-1  | 10,000 | f |
| 504-60-9  | 1,3-Pentadiene                                   | 504-60-9  | 10,000 | f |
| 557-98-2  | 2-Chloropropylene [1-Propene, 2-chloro-]         | 557-98-2  | 10,000 | g |
| 563-45-1  | 3-Methyl-1-butene                                | 563-45-1  | 10,000 | f |
| 563-46-2  | 2-Methyl-1-butene                                | 563-46-2  | 10,000 | g |
| 590-18-1  | 2-Butene-cis                                     | 590-18-1  | 10,000 | f |
| 590-21-6  | 1-Chloropropylene [1-Propene, 1-chloro-]         | 590-21-6  | 10,000 | g |
| 598-73-2  | Bromotrifluoroethylene [Ethene, bromotrifluoro-] | 598-73-2  | 10,000 | f |
| 624-64-6  | 2-Butene-trans [2-Butene, (E)]                   | 624-64-6  | 10,000 | f |
| 627-20-3  | 2-Pentene, (Z)-                                  | 627-20-3  | 10,000 | g |
| 646-04-8  | 2-Pentene, (E)-                                  | 646-04-8  | 10,000 | g |
| 689-97-4  | Vinyl acetylene [1-Buten-3-yne]                  | 689-97-4  | 10,000 | f |
| 1333-74-0 | Hydrogen   | 1333-74-0 | 10,000 | f |
| 4109-96-0 | Dichlorosilane [Silane, dichloro-]               | 4109-96-0 | 10,000 | f |
| 7791-21-1 | Chlorine monoxide [Chlorine oxide]               | 7791-21-1 | 10,000 | f |
|           |  |           |        |   |

|            |                                     |            |        |   |
|------------|-------------------------------------|------------|--------|---|
| 7803-62-5  | Silane                              | 7803-62-5  | 10,000 | f |
| 10025-78-2 | Trichlorosilane [Silane,trichloro-] | 10025-78-2 | 10,000 | g |
| 25167-67-3 | Butene                              | 25167-67-3 | 10,000 | f |

1 A flammable substance when used as a fuel or held for sale as a fuel at a retail facility is excluded from all provisions of this part (see § 68.126).

**Note:** Basis for Listing:

a Mandated for listing by Congress.

f Flammable gas.

g Volatile flammable liquid.

[59 FR 4493, Jan. 31, 1994. Redesignated at 61 FR 31717, June 20, 1996, as amended at 62 FR 45132, Aug. 25, 1997; 63 FR 645, Jan. 6, 1998; 65 FR 13250, Mar. 13, 2000]