

## **APPENDIX C**

**TITLE 40 OF THE CODE OF FEDERAL REGULATIONS PART 68**

**SUBPART F – REGULATED SUBSTANCES FOR  
ACCIDENTAL RELEASE PREVENTION**

**§68.130**

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(c) The emergency response plan developed under paragraph (a)(1) of this section shall be coordinated with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, the owner or operator shall promptly provide to the local emergency response officials information necessary for developing and implementing the community emergency response plan.

**Subpart F—Regulated Substances for Accidental Release Prevention**

SOURCE: 59 FR 4493, Jan. 31, 1994, unless otherwise noted. Redesignated at 61 FR 31717, June 20, 1996.

EFFECTIVE DATE NOTE: At 61 FR 31717, June 20, 1996, subpart C was redesignated as subpart F, effective Aug. 19, 1996.

**§ 68.100 Purpose.**

This subpart designates substances to be listed under section 112(r)(3), (4), and (5) of the Clean Air Act, as amended, identifies their threshold quantities, and establishes the requirements for petitioning to add or delete substances from the list.

**§ 68.115 Threshold determination.**

(a) A threshold quantity of a regulated substance listed in § 68.130 is present at a stationary source if the total quantity of the regulated substance contained in a process exceeds the threshold.

(b) For the purposes of determining whether more than a threshold quantity of a regulated substance is present at the stationary source, the following exemptions apply:

(1) *Concentrations of a regulated toxic substance in a mixture.* If a regulated substance is present in a mixture and the concentration of the substance is below one percent by weight of the mixture, the amount of the substance in the mixture need not be considered when determining whether more than a threshold quantity is present at the stationary source. Except for oleum, toluene 2,4-diisocyanate, toluene 2,6-diisocyanate, and toluene diisocyanate (unspecified isomer), if the concentra-

tion of the regulated substance in the mixture is one percent or greater by weight, but the owner or operator can demonstrate that the partial pressure of the regulated substance in the mixture (solution) under handling or storage conditions in any portion of the process is less than 10 millimeters of mercury (mm Hg), the amount of the substance in the mixture in that portion of the process need not be considered when determining whether more than a threshold quantity is present at the stationary source. The owner or operator shall document this partial pressure measurement or estimate.

(2) *Concentrations of a regulated flammable substance in a mixture.* If a regulated substance is present in a mixture and the concentration of the substance is below one percent by weight of the mixture, the mixture need not be considered when determining whether more than a threshold quantity of the regulated substance is present at the stationary source. If the concentration of the regulated substance in the mixture is one percent or greater by weight, then, for purposes of determining whether more than a threshold quantity is present at the stationary source, the entire weight of the mixture shall be treated as the regulated substance unless the owner or operator can demonstrate that the mixture itself does not meet the criteria for flammability of flash point below 73°F (22.8°C) and boiling point below 100°F (37.8°C). The owner or operator shall document these flash point and boiling point measurements or estimates.

(3) *Concentrations of a regulated explosive substance in a mixture.* Mixtures of Division 1.1 explosives listed in 49 CFR 172.101 (Hazardous Materials Table) and other explosives need not be included when determining whether a threshold quantity is present in a process, when the mixture is intended to be used on-site in a non-accidental release in a manner consistent with applicable BATF regulations. Other mixtures of Division 1.1 explosives listed in 49 CFR 172.101 and other explosives shall be included in determining whether more than a threshold quantity is present in a process if such mixtures would be treated as Division 1.1 explosives under 49 CFR parts 172 and 173.

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(4) *Articles.* Regulated substances contained in articles need not be considered when determining whether more than a threshold quantity is present at the stationary source.

(5) *Uses.* Regulated substances, when in use for the following purposes, need not be included in determining whether more than a threshold quantity is present at the stationary source:

(i) Use as a structural component of the stationary source;

(ii) Use of products for routine janitorial maintenance;

(iii) Use by employees of foods, drugs, cosmetics, or other personal items containing the regulated substance; and

(iv) Use of regulated substances present in process water or non-contact cooling water as drawn from the environment or municipal sources, or use of regulated substances present in air used either as compressed air or as part of combustion.

(6) *Activities in laboratories.* If a regulated substance is manufactured, processed, or used in a laboratory at a stationary source under the supervision of a technically qualified individual as defined in § 720.3(ee) of this chapter, the quantity of the substance need not be considered in determining whether a threshold quantity is present. This exemption does not apply to:

(i) Specialty chemical production;

(ii) Manufacture, processing, or use of substances in pilot plant scale operations; and

(iii) Activities conducted outside the laboratory.

**§ 68.120 Petition process.**

(a) Any person may petition the Administrator to modify, by addition or deletion, the list of regulated substances identified in § 68.130. Based on the information presented by the petitioner, the Administrator may grant or deny a petition.

(b) A substance may be added to the list if, in the case of an accidental release, it is known to cause or may be reasonably anticipated to cause death, injury, or serious adverse effects to human health or the environment.

(c) A substance may be deleted from the list if adequate data on the health and environmental effects of the substance are available to determine that

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the substance, in the case of an accidental release, is not known to cause and may not be reasonably anticipated to cause death, injury, or serious adverse effects to human health or the environment.

(d) No substance for which a national primary ambient air quality standard has been established shall be added to the list. No substance regulated under title VI of the Clean Air Act, as amended, shall be added to the list.

(e) The burden of proof is on the petitioner to demonstrate that the criteria for addition and deletion are met. A petition will be denied if this demonstration is not made.

(f) The Administrator will not accept additional petitions on the same substance following publication of a final notice of the decision to grant or deny a petition, unless new data becomes available that could significantly affect the basis for the decision.

(g) Petitions to modify the list of regulated substances must contain the following:

(1) Name and address of the petitioner and a brief description of the organization(s) that the petitioner represents, if applicable;

(2) Name, address, and telephone number of a contact person for the petition;

(3) Common chemical name(s), common synonym(s), Chemical Abstracts Service number, and chemical formula and structure;

(4) Action requested (add or delete a substance);

(5) Rationale supporting the petitioner's position; that is, how the substance meets the criteria for addition and deletion. A short summary of the rationale must be submitted along with a more detailed narrative; and

(6) Supporting data; that is, the petition must include sufficient information to scientifically support the request to modify the list. Such information shall include:

(i) A list of all support documents;

(ii) Documentation of literature searches conducted, including, but not limited to, identification of the database(s) searched, the search strategy, dates covered, and printed results;

(iii) Effects data (animal, human, and environmental test data) indicating

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the potential for death, injury, or serious adverse human and environmental impacts from acute exposure following an accidental release; printed copies of the data sources, in English, should be provided; and

(iv) Exposure data or previous accident history data, indicating the potential for serious adverse human health or environmental effects from an accidental release. These data may include, but are not limited to, physical and chemical properties of the substance, such as vapor pressure; modeling results, including data and assumptions used and model documentation; and historical accident data, citing data sources.

(h) Within 18 months of receipt of a petition, the Administrator shall publish in the **FEDERAL REGISTER** a notice either denying the petition or granting the petition and proposing a listing.

**§ 68.125 Exemptions.**

*Agricultural nutrients.* Ammonia used as an agricultural nutrient, when held by farmers, is exempt from all provisions of this part.

**§ 68.130 List of substances.**

(a) Explosives listed by DOT as Division 1.1 in 49 CFR 172.101 are covered under section 112(r) of the Clean Air Act. The threshold quantity for explosives is 5,000 pounds.

(b) 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.

(c) 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
Acryl chloride [2-Propenyl 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
Arsinous 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 [methane]]; 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-].	107-33-2	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
Cydohexylamine [Cydohexanamine].	108-91-8	15,000	b
Diborane .....	19287-45-7	2,500	b
Dimethylchlorosilane [Silane, dichlorodimethyl-1,1-].	75-78-5	5,000	b
Dimethylhydrazine (Hydrazine, 1,1-dimethyl-). Epichlorohydrin [Oxirane, (chloromethyl)-].	57-14-7	15,000	b
	106-89-6	20,000	b

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**TABLE 1 TO § 68.130.—LIST OF REGULATED  
TOXIC SUBSTANCES AND THRESHOLD QUAN-  
TITIES FOR ACCIDENTAL RELEASE  
PREVENTION—Continued**

[Alphabetical Order—77 Substances]

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Ethylenediamine [1,2-Ethanediamine].	107-15-3	20,000	b
Ethylenimine [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 30% 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	7664-39-3	1,000	a, b
Hydrofluoric acid (conc 50% or greater) [Hydrofluoric acid].			
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). Isobutyronitrile [Propanenitrile, 2-methyl-].	13463-40-6	2,500	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, methyl/ester].	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

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**TABLE 1 TO § 68.130.—LIST OF REGULATED  
TOXIC SUBSTANCES AND THRESHOLD QUAN-  
TITIES FOR ACCIDENTAL RELEASE  
PREVENTION—Continued**

[Alphabetical Order—77 Substances]

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Methyl thiocyanate [Thiocyanic acid, methyl ester].	556-64-9	20,000	b
Methylchlorosil- ane [Silane, in chloromethyl-].	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 [Nitro- gen oxide (NO)].	10102-43-9	10,000	b
Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur dioxide]. <sup>1</sup>	8014-95-7	10,000	e
Peracetic acid [Ethaneperoxy- c acid].	79-21-0	10,000	b
Perchloromethyl- mercaptan [Methanesulfen- yl chloride, trichloro-].	594-42-3	10,000	b
Phosgene [Car- bonic 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 tri- chloride [Phos- phorous tri- chloride].	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
Propylene mercaptoamine [Aziridine, 2- methyl-].	75-55-8	10,000	b
Propylene oxide [Oxirane, meth- yl-].	75-56-9	10,000	b
Sulfur dioxide (anhydrous).	7446-09-5	5,000	a, b
Sulfur tetra- fluoride [Sulfur fluoride (SF <sub>4</sub> ), (T-4)].	7783-60-0	2,500	b
Sulfur trioxide .....	7446-11-9	10,000	a, b
Tetramethyllead [Plumbane, tetramethyl-].	75-74-1	10,000	b
Tetrinitro- methane [Meth- ane, tetrinitro-].	509-14-8	10,000	b

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**TABLE 1 TO § 68.130.—LIST OF REGULATED  
TOXIC SUBSTANCES AND THRESHOLD QUAN-  
TITIES FOR ACCIDENTAL RELEASE  
PREVENTION—Continued**

(Alphabetical Order—77 Substances)

Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing	Chemical name	CAS No.	Threshold quantity (lbs)	Basis for listing
Titanium tetrachloride [Titanium chloride (TiCl <sub>4</sub> ) (T-4)].	7550-45-0	2,500	b	Trimethylchlorosilane [Silane, chlorotrimethyl-].	75-77-4	10,000	b
Toluene 2,4-disocyanate [Benzene, 2,4-disocyanato-2-methyl-] <sup>1</sup> .	584-84-9	10,000	a	Vinyl acetate monomer [Acetic acid ethenyl ester].	108-05-4	15,000	b
Toluene 2,6-disocyanate [Benzene, 1,3-disocyanato-2-methyl-] <sup>1</sup> .	91-08-7	10,000	a				
Toluene disocyanate (unspecified isomer) [Benzene, 1,3-disocyanatomethyl-].	26471-62-5	10,000	a				

**TABLE 1 TO § 68.130.—LIST OF REGULATED  
TOXIC SUBSTANCES AND THRESHOLD QUAN-  
TITIES FOR ACCIDENTAL RELEASE  
PREVENTION—Continued**

(Alphabetical Order—77 Substances)

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

Note: Basis for Listing:

- a Mandated for listing by Congress.
- b On EHS list, vapor pressure 10 mmHg or greater.
- c Toxic gas.
- d Toxicity of hydrogen chloride, potential to release hydrogen chloride, and history of accidents.
- e Toxicity 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
74-90-3	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	Propylenimine [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	Dimethylchlorosilane [Silane, dichlorodimethyl-]	5,000	b
75-79-6	Methyltrichlorosilane [Silane, trichloromethyl-]	5,000	b
78-82-0	Isobutylnitrite [Propanenitrite, 2-methyl-]	20,000	b
79-21-0	Peracetic acid [Ethaneperoxyacetic acid]	10,000	b
79-22-1	Methyl chloroformate [Carbonochloridic acid, methylester]	5,000	b
91-08-7	Toluene 2,6-disocyanate [Benzene, 1,3-disocyanato-2-methyl-] <sup>1</sup>	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 [2-Propenenitrile]	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
109-51-5	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

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**TABLE 2 TO § 68.130.—LIST OF REGULATED TOXIC SUBSTANCES AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION—Continued**  
**[CAS Number Order—77 Substances]**

CAS No.	Chemical name	Threshold quantity (lbs)	Basis for listing
126-98-7	Methacrylonitrile [2-Propanenitrile, 2-methyl-]	10,000	b
151-56-4	Ethylenimine [Azidine]	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 isocyanate [Thiocyanic acid, methyl ester]	20,000	b
584-84-9	Toluene, 2,4-disocyanato [Benzene, 2,4-disocyanato-1-methyl-]'	10,000	a
594-42-3	Perchloromethylmercaptoanil [Methanesulfenyl chloride, trichloro-]	10,000	b
624-83-9	Methyl isocyanate [Methane, isocyanato-]	10,000	a, b
814-68-6	Acryl chloride [2-Propenyl 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 (TiCl <sub>4</sub> ) (T-4)]	2,500	b
7637-07-2	Boron trifluoride [Borane, trifluoro-]	5,000	b
7847-01-0	Hydrochloric acid (conc 30% 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
7783-08-4	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]	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
28471-62-5	Toluene diisocyanate (unspecified isomer) [Benzene, 1,3-diisocyanatomethyl-1!]	10,000	a

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

NOTE: Basis for Listing

a Mandated for listing by Congress.

b On EHS list, vapor pressure 10 mmHg or greater

c Toxic gas.

e Toxicity of sulfur trioxide and sulfuryl acid, potential to release sulfur trioxide, and history of accidents

**TABLE 3 TO § 68.130.—LIST OF REGULATED FLAMMABLE SUBSTANCES 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
Bromo(nitroethylene [Ethene, bromonitro-]	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
Bulene	25167-67-3	10,000	f

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TABLE 3 TO § 68.130 —LIST OF REGULATED FLAMMABLE SUBSTANCES AND THRESHOLD QUANTITIES  
FOR ACCIDENTAL RELEASE PREVENTION—Continued  
[Alphabetical Order—63 Substances]

Chemical name	CAS No	Threshold quantity (lbs)	Basis for listing
2-Butene- <i>cis</i>	590-18-1	10,000	/
2-Butene- <i>trans</i> [2-Butene, (E)]	624-64-6	10,000	/
Carbon oxy sulfide [Carbon oxide sulfide (COS)]	463-58-1	10,000	/
Chlorine monoxide [Chlorine oxide]	7791-21-1	10,000	/
2-Chloropropylene [1-Propene, 2-chloro-]	557-58-2	10,000	g
1-Chloropropane [1-Propene, 1-chloro-]	590-21-6	10,000	g
Cyanogen [Ethanedinitrile]	460-19-5	10,000	/
Cyclopropane	75-19-4	10,000	/
Dichlorosilane [Silane, dichloro-]	4109-96-0	10,000	/
Difluoroethane [Ethane, 1,1-difluoro-]	75-37-6	10,000	/
Dimethylamine [Methanamine, N-methyl-]	124-40-3	10,000	/
2,2-Dimethylpropane [Propane, 2,2-dimethyl-]	463-82-1	10,000	/
Ethane	74-84-0	10,000	/
Ethyl acetylene [1-Butyne]	107-00-6	10,000	/
Ethyramine [Ethanamine]	75-04-7	10,000	/
Ethyl chloride [Ethane, chloro-]	75-00-3	10,000	/
Ethylene [Ethene]	74-85-1	10,000	/
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	/
Hydrogen	1333-74-0	10,000	/
Isobutane [Propane, 2-methyl]	75-28-5	10,000	/
Isopentane [Bulane, 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	/
Methylamine [Methanamine]	74-89-5	10,000	/
3-Methyl-1-butene	563-45-1	10,000	/
2-Methyl-1-butene	563-45-2	10,000	g
Methyl ether [Methane, oxybis-]	115-10-6	10,000	/
Methyl formate [Formic acid, methyl ester]	107-31-3	10,000	g
2-Methylpropene [1-Propene, 2-methyl-]	115-11-7	10,000	/
1,3-Pentadiene	504-60-9	10,000	/
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	/
Propane	74-98-6	10,000	/
Propylene [1-Propene]	115-07-1	10,000	/
Propyne [1-Propyne]	74-99-7	10,000	/
Silane	7803-62-5	10,000	/
Tetrafluoroethylene [Ethene, tetrafluoro-]	116-14-3	10,000	/
Tetramethylsilane [Silane, tetramethyl-]	75-76-3	10,000	g
Tetrachlorosilane [Silane, tetrachloro-]	10025-78-2	10,000	g
Trifluorochloroethylene [Ethene, chlorotrifluoro-]	79-38-9	10,000	/
Trimethylamine [Methanamine, N,N-dimethyl-]	75-50-3	10,000	/
Vinyl acetylene [1-Buten-3-yne]	689-97-4	10,000	/
Vinyl chloride [Ethene, chloro-]	75-01-4	10,000	a, /
Vinyl ethyl ether [Ethene, ethoxy-]	109-92-2	10,000	g
Vinyl fluoride [Ethene, fluoro-]	75-02-5	10,000	/
Vinyldiene chloride [Ethene, 1,1-dichloro-]	75-25-4	10,000	g
Vinyldiene fluoride [Ethene, 1,1-difluoro-]	75-38-7	10,000	/
Vinyl methyl ether [Ethene, methoxy-]	107-25-5	10,000	/

Note: Basis for Listing.

a Mandated for listing by Congress.  
f Flammable gas.  
g Volatile flammable liquid.

**§ 68.130**

**40 CFR Ch. I (7-1-96 Edition)**

**TABLE 4 TO § 68.130.—LIST OF REGULATED FLAMMABLE SUBSTANCES AND THRESHOLD QUANTITIES FOR ACCIDENTAL RELEASE PREVENTION  
[CAS Number Order—83 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	Vinyldene chloride [Ethene, 1,1-dichloro-]	75-35-4	10,000	g
75-37-6	Difluoromethane [Ethane, 1,1-difluoro-]	75-37-6	10,000	f
75-38-7	Vinyldene 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, chlorofluoro-]	79-38-9	10,000	f
106-97-8	Bulane	106-97-8	10,000	f
106-98-9	1-Butene	106-98-9	10,000	f
106-99-0	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-Buene	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-]	109-92-2	10,000	g
109-95-5	Ethyl nitrile [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,N-dimethyl-]	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 oxyulfide [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-Buten-1-ol	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
7803-52-5	Silane	7803-52-5	10,000	f
10025-78-2	Trichlorosilane [Silane trichloro-]	10025-78-2	10,000	g
25167-67-3	Bulene	25167-67-3	10,000	f

Note: Basis for Listing: a Mandated for listing by Congress. f Flammable gas g Volatile flammable liquid.