LOCAL EMERGENCY PLANNING COMMITTEE

LEPC ...safety in knowledge®

WEBER COUNTY LEPC
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This document provides guidance for submitting the inventory report (known as the Tier II Chemical Inventory Report) to local Fire Departments, Weber County Local Emergency Planning Committee (LEPC), and to the Utah Division of Environmental Response and Remediation. Please keep the following in mind when preparing Tier II Chemical Inventory Reports:

Newly developed, EPA and Utah approved, "Tier II Submit" software is available for download from the Internet at www.epa.gov/ceppo**.** This software facilitates preparation of a diskette containing your chemical inventory information that can be submitted to local fire departments, Weber County LEPC, and the Utah Division of Environmental Response and Remediation. The diskette takes the place of a hardcopy submission. This easy-to-use software helps to assure your submission is entered accurately into agency databases.

The following information is important when preparing your Tier II submission:

- Tier II reports are due March 1st of each year.
- Tier II reports should reflect chemical inventories for calendar year prior to the March 1st deadline.
- Tier II reports should be completed for "hazardous chemicals" (as defined by OSHA) present in amount 10,000 pounds or greater.
- Tier II reports should also be completed for "extremely hazardous chemicals" present in amounts equal to or exceeding the amount identified on the enclosed list of "extremely hazardous chemicals."

Retail service stations are exempt from submitting the Tier II Chemical Inventory Report if the following three criteria are met:

1. They have less than 75,000 gallons of gasoline or 100,000 gallons of diesel fuel.
2. The gasoline or diesel fuel is stored in entirely underground storage tanks.
3. The tanks are in compliance with state and federal underground storage tank regulations.

State and local governmentally owned facilities are also exempt from submitting the Tier II Chemical Inventory Report. However, such facilities are encouraged to submit a report to facilitate local emergency response planning.

There is no fee for filing Tier II reports.

Each of the following agencies must receive a copy of the Tier II report:

- The Division of Environmental Response and Remediation
  168 North 1950 West, Salt Lake City, UT 84116
- Weber County Local Emergency Planning Committee (LEPC)
- The fire department for your facility location.

The following items are included to aid in preparing and submitting Tier II reports:

- Utah specific guidance on completing the Tier II form.
- EPA Tier II instructions
- A list of Extremely Hazardous Substances.

If your facility does not use chemicals in amounts that require Tier II reporting, we recommend that you, in writing, notify the following:

- The Utah Division of Environmental Response and Remediation
- Weber County LEPC
- The local fire department

UTAH SPECIFIC GUIDANCE ON COMPLETING THE TIER II FORM
(See enclosed CFR 370.41 Tier II instructions for more detail)

Enter the mailing address that you want the State to mail next year's Tier II reporting reminder in the "Owner/Operator Name" section of the Tier II form.

If you don not know your SIC code or Dun & Bradstreet number, leave those two fields blank.

Please be sure to fill in the chemical name. Use the most common name for a hazardous chemical. If a component of the product is a listed Extremely Hazardous Substance, you must also fill in the field "EHS NAME" with the name of the component.

Your chemical suppliers and MSDS (Material Safety Data Sheet) are good sources of information for:

- The CAS (Chemical Abstract Service) number
- The type of substance (pure, mix, liquid, etc.)
- Physical and health hazards
- EHS status and chemical name

If the chemical you stock has multiple CAS numbers because it is a mixture of components, you can leave the CAS number boxes blank.

Mark the "Trade Secret" box only if your business claims the composition of the chemical as a trade secret. Claiming a trade secret requires filing justification with EPA.

THE CHEMICAL POUNDAGE PRESENT SHOULD BE ENTERED AS A RANGE CODE. Codes for each poundage range are provided in the enclosed federal Tier II instructions. Your chemical supplier or the MSDS may provide conversion factors to change gallons, cubic feet, and other measures into pounds.

MAKE SURE TO SIGN the certification section of the hard copy forms you submit. If you submit hard copy forms, an ORIGINAL SIGNATURE should be on the first page of your submission to the fire department, LEPC, and the State.

Submit Tier II reports to the State (Division of Environmental Response and Remediation), to the appropriate LEPC (list enclosed), and to the fire department for the facility location.

There is no fee for submission of Tier II reports to the State of Utah.

There is no fee for submission of Tier II reports to Weber County LEPC.

EPA TIER TWO INSTRUCTIONS

GENERAL INFORMATION

Submission of this Tier Two form (when requested) is required by Title III of the Superfund Amendments and Reauthorization Act of 1986, Section 312, Public Law 99-499, codified at 42 U.S.C. Section 11022. The purpose of this Tier Two form is to provide State and local officials and the public with specific information on hazardous chemicals present at your facility during the past year.

CERTIFICATION

The owner or operator or the officially designated representative of the owner or operator must certify that all information included in the Tier Two submission is true, accurate, and complete. On the first page of the Tier Two report, enter your full name and official title. Sign your name and enter the current date. Also, enter the total number of pages included in the Confidential and Non-Confidential Information Sheets as well as all attachments. An original signature is required on at least the first page of the submission. Submissions to the SERC, LEPC, and fire department must each contain an original signature on at least the first page. Subsequent pages must contain either an original signature, a photocopy of the original signature, or a signature stamp. Each page must contain the date on which the original signature was affixed to the first page of the submission and the total number of pages in the submission.

YOU MUST PROVIDE ALL INFORMATION REQUESTED ON THIS FORM TO FULFILL TIER TWO REPORTING REQUIREMENTS.

This form may also be used as a worksheet for completing the Tier One form or may be submitted in place of the Tier One form.

WHO MUST SUBMIT THIS FORM

Section 312 of Title III requires that the owner or operator of a facility submit their Tier Two form if so requested by a State emergency response commission, a local emergency planning committee, or a fire department with jurisdiction over the facility.

This request may apply to the owner or operator of any facility that is required, under regulations implementing the Occupational Safety and Health Act of 1970, to prepare or have available a Material Safety Data Sheet (MSDS) for a hazardous chemical present at the facility. MSDS requirements are specified in the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, found in Title 29 of the Code of Federal Regulations at §1910.1200.

This form does not have to be submitted if all of the chemicals located at your facility are excluded under Section 311(e) of Title III.

WHAT CHEMICALS ARE INCLUDED

If you are submitting Tier Two forms in lieu of Tier One, you must report the required information on this Tier Two form for each hazardous chemical present at your facility in quantities equal to or greater than established threshold amounts (discussed below), unless the chemicals are excluded under Section 311(e) of Title III. Hazardous chemicals are any substance for which your facility must maintain an MSDS under OSHA's Hazard Communication Standard.

If you elect to submit Tier One rather than Tier Two, you may still be required to submit Tier Two information upon request.

WHAT CHEMICALS ARE EXCLUDED

Section 311(e) of Title III excludes the following substances:

(I) Any food, food additive, color additive, drug, or cosmetic regulated by the Food and Drug Administration:

(II) Any substance present as a solid in any manu-factured item to the extent exposure to the sub-stance does not occur under normal conditions of use;

(III) Any substance to the extent it is used for personal, family, or household purposes, or is present in the same form and concentration as a product packaged for distribution and use by the general public;

(IV) Any substance to the extent it is used in a research laboratory or a hospital or other medical facility under the direct supervision of a technically qualified individual;

(V) Any substance to the extent it is used in routine agricultural operations or is a fertilizer held for sale by a retailer to the ultimate customer.

OSHA regulations, Section 1910.1200(b), stipulate exemptions from the requirement to prepare to have available an MSDS.

REPORTING THRESHOLDS

Minimum thresholds have been established for Tier One/ Tier Two reporting under Title III, Section 312. These thresholds are as follows:

For Extremely Hazardous Substances (EHSs) designated under Section 302 of Title III, the reporting threshold is 500 pounds (or 227 kg.) or the threshold planning quantity (TPQ), whichever is lower.

For all other hazardous chemicals for which facilities are required to have or prepare an MSDS, the minimum reporting threshold is 10,000 pounds (or 4.540 kg.).

You need to report hazardous chemicals that were present at your facility at any time during the previous calendar year at levels that equal or exceed these thresholds. For instructions on threshold determinations for components of mixtures, see "What About Mixtures?" on page 2 of these instructions.

A requesting official may limit the responses required under Tier Two by specifying particular chemicals or groups of chemicals. Such requests apply to hazardous chemicals regardless of established thresholds.

INSTRUCTIONS

Please read these instructions carefully. Print or type all responses.

WHEN TO SUBMIT THIS FORM

Owners or operators of facilities that have hazardous chemicals on hand in quantities equal to or greater than set threshold levels must submit either Tier One or Tier Two forms by March 1.

If you choose to submit Tier One, rather than Tier Two, be aware that you may have to submit Tier Two Information later, upon request of any authorized official. You must submit the Tier Two form within 30 days of receipt of a written request.

WHERE TO SUBMIT THIS FORM

Send either a completed Tier One form or Tier Two form(s) to each of the following organizations:

1. Your State Emergency Response Commission.
2. Your Local Emergency Planning Committee.
3. The fire department with jurisdiction over your facility.

If a Tier Two form is submitted in response to a request, send the completed form to the requesting agency.

PENALTIES

Any owner or operator who violates any Tier Two reporting requirements shall be liable to the United States for a civil penalty of up to $25,000 for each such violation. Each day a violation continues shall constitute a separate violation.

If your Tier Two responses require more than one page, use additional forms and fill in the page number at the top of the form.

REPORTING PERIOD

Enter the appropriate calendar year, beginning January 1 and ending December 31.

FACILITY IDENTIFICATION

Enter the full name of your facility (and company identifier where appropriate).

Enter the full street address or state road. If a street address is not available, enter other appropriate identifiers that describe the physical location of your facility (e.g., longitude and latitude). Include city, county, state and zip code.

Enter the primary Standard Industrial Classification (SIC) code and the Dun & Bradstreet number for your facility. The financial officer of your facility should be able to provide the Dun & Bradstreet number. If your firm does not have this information, contact the State or regional office of Dun & Bradstreet to obtain your facility number or have one assigned.

OWNER/OPERATOR

Enter the owner's or operator's full name, mailing address, and phone number.

EMERGENCY CONTACT

Enter the name, title, and work phone number of at least one local person or office who can act as a referral if emergency responders need assistance in responding to a chemical accident at the facility.

Provide an emergency phone number where such emer-gency information will be available 24 hours a day, everyday. The requirement is mandatory. The facility must make some arrangement to ensure that a 24 hour contact is available.

IDENTICAL INFORMATION

Check the box indicating identical information, located below the emergency contacts on the Tier Two form, if the current chemical information being reported is identical to that submitted last year. Chemical descriptions, hazards, amounts, and locations must be provided in this year's form, even if the information is identical to that submitted last year.

CHEMICAL INFORMATION: Description, Hazards, Amounts, and Locations

The main section of the Tier Two form requires specific information on amounts and locations of hazardous chemicals, as defined in the OSHA Hazard Communication Standard.

If you choose to indicate that all of the information on a specific hazardous chemical is identical to that submitted last year, check the appropriate optional box provided at the right side of the storage codes and locations on the Tier Two form. Chemical descriptions, hazards, amounts, and locations must be provided even if the information is identical to that submitted last year.

- What units should I use?

  Calculate all amounts as *weight in pounds*. To convert gas or liquid volume to weight in pounds, multiply by an appropriate density factor.

- What about mixtures?

  If a chemical is part of a mixture, *you have the option* of reporting either the weight of the entire mixture or only the portion of the mixture that is a particular hazardous chemical (e.g., if a hazardous solution weighs 100 lbs. but is composed of only 5% of a particular hazardous chemical, you can indicate either 100 lbs. of the mixture *or* 5 lbs. of the chemical).

  The option used for each mixture must be consistent with the option used in your Section 311 reporting.

  Because EHSs are important to Section 303 planning, EHSs have lower thresholds. The amount of an EHS at a facility (both pure EHS substances and EHSs in mixtures) must be aggregated for purposes of threshold determination. It is suggested that the aggregation calculation be done as a first step in making the threshold determination. Once you determine whether a threshold for an EHS has been reached, you should report either the total weight of the EHS at your facility, or the weight of each mixture containing the EHS.

CHEMICAL DESCRIPTION

1. Enter the Chemical Abstract Service registry number (CAS). For mixtures, enter the CAS number of the mixture as a whole if it has been assigned a number distinct from its constituents. For a mixture that has no CAS number, leave this item blank or report the CAS numbers of as many constituent chemicals as possible.

   If you are withholding the name of a chemical in accordance with criteria specified in Title III, Section 322, enter the generic class or category that is structurally descriptive of the chemical (e.g., list toulene diisocyanate as organic isocyanate) and check the box marked Trade Secret. Trade secret information should be submitted to EPA and must include a substantiation. Please refer to EPA's final regulation on trade secrecy (53 FR 28772, July 29, 1988) for detailed information on how to submit trade secrecy claims.

2. Enter the chemical name or common name of each hazardous chemical.

3. Check box for *ALL* applicable descriptors: pure or mixture; *and* solid, liquid, or gas; and whether the chemical is or contains an EHS.

4. If the chemical is a mixture containing an EHS, enter the chemical name of each EHS in the mixture.

EXAMPLE:

You have pure chlorine gas on hand, as well as two mixtures that contain liquid chlorine. You write "chlorine" and enter the CAS number. Then you check "pure" *and* "mix" -- as well as "liquid" *and* "gas".

PHYSICAL AND HEALTH HAZARDS

For each chemical you have listed, check all the physical and health hazard boxes that apply. These hazard categories are defined in 40 CFR 370.2. The two health hazard categories and three physical hazard categories are a consolidation of the 23 hazard categories defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Hazard Category Comparison
For Reporting Under Sections 311 and 312

EPA's Hazard Categories	OSHA's Hazard Categories
Fire Hazard	Flammable Combustion Liquid Pyrophoric Oxidizer
Sudden Release of Pressure	Explosive Compressed Gas
Reactive	Unstable Reactive Organic Peroxide Water Reactive
Immediate (Acute) Health Hazards	Highly Toxic Toxic Irritant Sensitizer Corrosive
	Other hazardous chemicals with an adverse effect with short term exposure
Delayed (Chronic) Health Hazard	Carcinogens
	Other hazardous chemicals with an adverse effect with long term exposure

MAXIMUM AMOUNT

1. For each hazardous chemical, estimate the greatest amount present at your facility on any single day during the reporting period.

2. Find the appropriate range value code in Table I.

3. Enter this range value as the Maximum Amount.

Table I REPORTING RANGES

Range Value	Weight Range in Pounds From...	To...
01	0	99
02	100	999
03	1,000	9,999
04	10,000	99,999
05	100,000	999,999
06	1,000,000	9,999,999
07	10,000,000	49,999,999
08	50,000,000	99,999,999
09	100,000,000	499,999,999
10	500,000,000	999,999,999
11	1 billion	higher than 1 billion

If you are using this form as a worksheet for completing Tier One, enter the actual weight in pounds in the shaded space below the response blocks. Do this for both Maximum Amount and Average Daily Amount.

EXAMPLE:

You received one large shipment of a solvent mixture last year. The shipment filled five 5,000-gallon storage tanks. You know that the solvent contains 10% benzene, which is a hazardous chemical.

You figure that 10% of 25,000 gallons is 2,500 gallons. You also know that the density of benzene is 7.29 pounds per gallon, so you multiply 2,500 gallons by 7.29 pounds per gallon to get a weight of 18.225 pounds.

Then you look at Table I and find that the range value 04 corresponds to 18.225. You enter 04 as the Maximum Amount.

(If you are using the form as a worksheet for completing a Tier One form, you should write 18.255 in the shaded area.)

AVERAGE DAILY AMOUNT

1. For each hazardous chemical, estimate the average weight in pounds that was present at your facility during the year.
   To do this, total all daily weights and divide by the number of days the chemical was present on the site.
2. Find the appropriate range value in Table I.
3. Enter this range value as the Average Daily Amount.

EXAMPLE:

The 25,000-gallon shipment of solvent you received last year was gradually used up and completely gone in 315 days. The sum of the daily volume levels in the tank is 4,536,000 gallons. By dividing 4,536,000 gallons by 315 days on-site, you calculate an average daily amount of 14,400 gallons.

You already know that the solvent contains 10% benzene, which is a hazardous chemical. Since 10% of 14,400 is 1,440, you figure that you had an average of 1,440 gallons of benzene. You also know that the density of benzene is 7.29 pounds per gallon, so you multiply 1,440 by 7.29 to get a weight of 10,500 pounds.

Then you look at Table I and find that the range value 04 corresponds to 10,500. You enter 04 as the Average Daily Amount.

(If you are using the form as a worksheet for completing Tier One form, you should write 10,500 in the shaded area.)

NUMBER OF DAYS ON-SITE

Enter the number of days that the hazardous chemical was found on-site.

EXAMPLE:

The solvent composed of 10% benzene was present for 315 days at your facility. Enter 315 in the space provided.

STORAGE CODES AND STORAGE LOCATIONS

List all non-confidential chemical locations in the column, along with storage types/conditions associated with each location. Please note that a particular chemical may be located in several places around the facility. Each row of boxes followed by a line represents a unique location for the same chemical.

Storage Codes: Indicate the types and conditions of storage present:

a. *Look at Table II.* For each location, find the appropriate storage type and enter the corresponding code in the first box.
b. *Look at Table III.* For each location, find the appropriate storage types for pressure and temperature conditions. Enter the applicable pressure code in the second box. Enter the applicable temperature code in the third box.

Table II - STORAGE TYPES

CODES	Types of Storage
A	Above ground tank
B	Below ground tank
C	Tank inside building
D	Steel drum
E	Plastic or non-metallic drum
F	Can
G	Carboy
H	Silo
I	Fiber drum
J	Bag
K	Box
L	Cylinder
M	Glass bottles or jugs
N	Plastic bottles or jugs
O	Tote bin
P	Tank wagon
Q	Rail car
R	Other

Table III - PRESSURE AND TEMPERATURE CONDITIONS

CODES	Storage Conditions
	(PRESSURE)
1	Ambient pressure
2	Greater than ambient pressure
3	Less than ambient pressure
	(TEMPERATURE)
4	Ambient temperature
5	Greater than ambient temperature
6	Less than ambient temperature but not cryogenic
7	Cryogenic conditions

EXAMPLE:

The benzene in the main building is kept in a tank inside the building, at ambient pressure and less than ambient temperature.

Table II shows you that the code for a tank inside a building is C. Table III shows you that the code for ambient pressure is 1, and the code for less than ambient temperature is 6.

You enter:

C	1	6

STORAGE LOCATIONS:

Provide a brief description of the precise location of the chemical, so that emergency responders can locate the area easily. You may find it advantageous to provide the optional site plan or site coordinates.

Form Approved OMB No. 2050-0072

Tier Two **EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY** *Specific Information by Chemical*	**Facility Identification** Name ______ Street ______ City ______ County ______ State ______ Zip ______ SIC Code ______ Dun & Brad Number ______ FOR OFFICIAL USE ONLY: ID # ______ / Date Received ______	**Owner/Operator Name** Name ______ Phone ( ) Mail Address ______ **Emergency Contact** Name ______ Title ______ Phone ( ) ______ 24 Hr. Phone ( ) ______ Name ______ Title ______ Phone ( ) ______ 24 Hr. Phone ( ) ______
Important:* *Read all instructions before completing form	Reporting Period From January 1 to December 31, 19 ___	[ ] Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Container Type / Pressure / Temperature	Storage Codes and Locations (Non-Confidential) Storage Locations	Optional
CAS ______ Trade Secret ______ Chem. Name ______ *Check all that apply* [ ] Pure [ ] Mix [ ] Solid [ ] Liquid [ ] Gas [ ] EHS EHS Name ______	[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [ ] Delayed (chronic)	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-site (days)			[ ]
CAS ______ Trade Secret ______ Chem. Name ______ *Check all that apply* [ ] Pure [ ] Mix [ ] Solid [ ] Liquid [ ] Gas [ ] EHS EHS Name ______	[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [ ] Delayed (chronic)	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-site (days)			[ ]
CAS ______ Trade Secret ______ Chem. Name ______ *Check all that apply* [ ] Pure [ ] Mix [ ] Solid [ ] Liquid [ ] Gas [ ] EHS EHS Name ______	[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [ ] Delayed (chronic)	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-site (days)			[ ]
CAS ______ Trade Secret ______ Chem. Name ______ *Check all that apply* [ ] Pure [ ] Mix [ ] Solid [ ] Liquid [ ] Gas [ ] EHS EHS Name ______	[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [ ] Delayed (chronic)	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-site (days)			[ ]

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Chemical Description	Physical and Health Hazards (*check all that apply*)	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential) *Storage Locations*	Optional
CAS ______ Trade Secret ______ Chem. Name ______ *Check all that apply* [ ] Pure [ ] Mix [ ] Solid [ ] Liquid [ ] Gas [ ] EHS EHS Name ______	[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [ ] Delayed (chronic)	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-site (days)					[ ]
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Certification *(Read and sign after completing all sections)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through ______, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

______________________ Name and official title of owner/operator OR owner/operator's authorized representative

______________________ Signature

______________________ Date signed

Optional Attachments

[ ] I have attached a site plan

[ ] I have attached a list of site coordinate abbreviations

[ ] I have attached a description of dikes and other safeguards measures

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Chemical Description	Physical and Health Hazards *(check all that apply)*	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential) *Storage Locations*	Optional
CAS ______ Trade Secret ______ Chem. Name ______ *Check all that apply* [ ] Pure [ ] Mix [ ] Solid [ ] Liquid [ ] Gas [ ] EHS EHS Name ______	[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [ ] Delayed (chronic)	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-site (days)					[ ]
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Alphabetic Listing of Extremely Hazardous Substances (EHSs).
December 2001

CAS Number	Tier II Reporting Threshold (in pounds)	Chemical Name
57147	500	1,1-Dimethyl hydrazine
107153	500	1,2-Ethanediamine
309002	500	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-
1464535	500	2,2'-Bioxirane
541537	100	2,4-Dithiobiuret
4170303	500	2-Butenal
123739	500	2-Butenal, (e)-
51752	10	2-Chloro-N-(2-chloroethyl)-N-methylethanamine
75865	500	2-Methyllactonitrile
107119	500	2-Propen-1-amine
107186	500	2-Propen-1-ol
107028	500	2-Propenal
107131	500	2-Propenenitrile
126987	500	2-Propenenitrile, 2-methyl-
814686	100	2-Propenoyl chloride
542767	500	3-Chloropropionitrile
534521	10	4,6-Dinitro-o-cresol
57749	500	4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-
504245	500	4-Aminopyridine
2763964	500	5-(Aminomethyl)-3-isoxazolol
51218	500	5-Fluorouracil
108054	500	Acetic acid ethenyl ester
75865	500	Acetone cyanohydrin
1752303	500	Acetone thiosemicarbazide
107028	500	Acrolein
79061	500	Acrylamide
107131	500	Acrylonitrile
814686	100	Acrylyl chloride
111693	500	Adiponitrile
116063	100	Aldicarb
309002	500	Aldrin
107186	500	Allyl alcohol
107119	500	Allylamine
20859738	500	Aluminum phosphide
54626	500	Aminopterin
78535	500	Amiton
3734972	100	Amiton oxalate
7664417	500	Ammonia
300629	500	Amphetamine
62533	500	Aniline
88051	500	Aniline, 2,4,6-trimethyl-
7783702	500	Antimony pentafluoride
1397940	500	Antimycin A
86884	500	Antu
1303282	100	Arsenic pentoxide
1327533	100	Arsenic trioxide
1327533	100	Arsenous oxide
7784341	500	Arsenous trichloride
7784421	100	Arsine
2642719	100	Azinphos-ethyl
86500	10	Azinphos-methyl
151564	500	Aziridine
75558	500	Aziridine, 2-methyl
98873	500	Benzal chloride
98168	500	Benzenamine, 3-(trifluoromethyl)-
91087	100	Benzene, 1,3-diisocyanato-2-methyl-
100141	500	Benzene, 1-(chloromethyl)-4-nitro-
584849	500	Benzene, 2,4-diisocyanato-1-methyl-
98055	10	Benzenearsonic acid
108985	500	Benzenethiol
3615212	500	Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-
98077	100	Benzoic trichloride
98077	100	Benzotrichloride
100447	500	Benzyl chloride
140294	500	Benzyl cyanide
57578	500	beta-Propiolactone
15271417	500	Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-,(1-alpha,2-beta,4-alpha,5-alpha,6E))-
111444	500	Bis(2-chloroethyl) ether
542881	100	Bis(chloromethyl) ether
534076	10	Bis(chloromethyl) ketone
4044659	500	Bitoscanate
10294345	500	Borane, trichloro-
7637072	500	Borane, trifluoro-
10294345	500	Boron trichloride
7637072	500	Boron trifluoride
353424	500	Boron trifluoride compound with methyl ether (1:1)
353424	500	Boron, trifluoro[oxybis[methane]]-, (T-4)-
28772567	100	Bromadiolone
7726956	500	Bromine
74839	500	Bromomethane
1306190	100	Cadmium oxide

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CAS Number	Tier II Reporting Threshold (in pounds)	Chemical Name
2223930	500	Cadmium stearate
7778441	500	Calcium arsenate
8001352	500	Camphechlor
8001352	500	Camphene, octachloro-
56257	100	Cantharidin
51832	500	Carbachol chloride
26419738	100	Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-
1563662	10	Carbofuran
75150	500	Carbon disulfide
75445	10	Carbonic dichloride
108236	500	Carbonochloridic acid, 1-methylethyl ester
79221	500	Carbonochloridic acid, methylester
109615	500	Carbonochloridic acid, propylester
786196	500	Carbophenothion
57749	500	Chlordane
470906	500	Chlorfenvinfos
7782505	100	Chlorine
24934916	500	Chlormephos
999815	100	Chlormequat chloride
79118	100	Chloroacetic acid
107073	500	Chloroethanol
627112	500	Chloroethyl chloroformate
67663	500	Chloroform
542881	100	Chloromethyl ether
107302	100	Chloromethyl methyl ether
3691358	100	Chlorophacinone
1982474	500	Chloroxuron
21923239	500	Chlorthiophos
10025737	1	Chromic chloride
10210681	10	Cobalt carbonyl
62207765	100	Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenylato))(2-)-N,N',O,O')-
64868	10	Colchicine
56724	100	Coumaphos
5836293	500	Coumatetralyl
535897	100	Crimidine
4170303	500	Crotonaldehyde
123739	500	Crotonaldehyde, (E)-
12002038	500	Cupric acetoarsenite
506683	500	Cyanogen bromide
506785	500	Cyanogen iodide
2636262	500	Cyanophos
675149	100	Cyanuric fluoride
108918	500	Cyclohexanamine
58899	500	Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alpha.,6.beta.)-
66819	100	Cycloheximide
108918	500	Cyclohexylamine
17702419	500	Decaborane(14)
8065483	500	Demeton
919868	500	Demeton-S-methyl
10311849	100	Dialifor
19287457	100	Diborane
19287457	100	Diborane(6)
111444	500	Dichloroethyl ether
542881	100	Dichloromethyl ether
149746	500	Dichloromethylphenylsilane
696286	500	Dichlorophenylarsine
62737	500	Dichlorvos
141662	100	Dicrotophos
1464535	500	Diepoxybutane
814493	500	Diethyl chlorophosphate
1642542	100	Diethylcarbamazine citrate
71636	100	Digitoxin
2238075	500	Diglycidyl ether
20830755	10	Digoxin
55914	100	Diisopropylfluorophosphate
115264	500	Dimefox
60515	500	Dimethoate
2524030	500	Dimethyl chlorothiophosphate
2524030	500	Dimethyl phosphorochloridothioate
77781	500	Dimethyl sulfate
99989	10	Dimethyl-p-phenylenediamine
75785	500	Dimethyldichlorosilane
57147	500	Dimethylhydrazine
644644	500	Dimetilan
88857	100	Dinitrobutyl phenol
534521	10	Dinitrocresol
88857	100	Dinoseb
1420071	500	Dinoterb
78342	500	Dioxathion
82666	10	Diphacinone
152169	100	Diphosphoramide, octamethyl-
298044	500	Disulfoton
514738	500	Dithiazanine iodide
541537	100	Dithiobiuret
316427	1	Emetine, dihydrochloride
115297	10	Endosulfan
2778043	500	Endothion

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CAS Number	Tier II Reporting Threshold (in pounds)	Chemical Name
72208	500	Endrin
106898	500	Epichlorohydrin
2104645	100	EPN
50146	500	Ergocalciferol
379793	500	Ergotamine tartrate
505602	500	Ethane, 1,1'-thiobis[2-chloro-
79210	500	Ethaneperoxoic acid
1622328	500	Ethanesulfonyl chloride, 2-chloro-
16752775	500	Ethanimidothioic acid, N-[[methylamino)carbonyl]
10140871	500	Ethanol, 1,2-dichloro-, acetate
563122	500	Ethion
13194484	500	Ethoprop
13194484	500	Ethoprophos
107120	500	Ethyl cyanide
538078	500	Ethylbis(2-chloroethyl)amine
371620	10	Ethylene fluorohydrin
75218	500	Ethylene oxide
107153	500	Ethylenediamine
151564	500	Ethyleneimine
542905	500	Ethylthiocyanate
22224926	10	Fenamiphos
122145	500	Fenitrothion
115902	500	Fensulfothion
4301502	100	Fluenetil
7782414	500	Fluorine
640197	100	Fluoroacetamide
144490	10	Fluoroacetic acid
62748	10	Fluoroacetic acid, sodium salt
359068	10	Fluoroacetyl chloride
51218	500	Fluorouracil
944229	500	Fonofos
50000	500	Formaldehyde
50000	500	Formaldehyde (solution)
107164	500	Formaldehyde cyanohydrin
23422539	500	Formetanate hydrochloride
2540821	100	Formothion
17702577	100	Formparanate
21548323	500	Fosthietan
3878191	100	Fuberidazole
110009	500	Furan
13450903	500	Gallium trichloride
86500	10	Guthion
58899	500	Hexachlorocyclohexane (gamma isomer)
77474	100	Hexachlorocyclopentadiene
4835114	500	Hexamethylenediamine, N,N'-dibutyl-
302012	500	Hydrazine
57147	500	Hydrazine, 1,1-dimethyl-
60344	500	Hydrazine, methyl-
74908	100	Hydrocyanic acid
7664393	100	Hydrofluoric acid
7647010	500	Hydrogen chloride (anhydrous)
7647010	500	Hydrogen chloride (gas only)
74908	100	Hydrogen cyanide
7664393	100	Hydrogen fluoride
7722841	500	Hydrogen peroxide (Conc.> 52%)
7783075	10	Hydrogen selenide
7783064	500	Hydrogen sulfide
123319	500	Hydroquinone
13463406	100	Iron carbonyl (Fe(CO)5), (TB-5-11)-
13463406	100	Iron, pentacarbonyl-
297789	100	Isobenzan
78820	500	Isobutyronitrile
102363	500	Isocyanic acid, 3,4-dichlorophenyl ester
465736	100	Isodrin
55914	100	Isofluorphate
4098719	100	Isophorone diisocyanate
108236	500	Isopropyl chloroformate
119380	500	Isopropylmethylpyrazolyl dimethylcarbamate
556616	500	Isothiocyanatomethane
78977	500	Lactonitrile
21609905	500	Leptophos
541253	10	Lewisite
58899	500	Lindane
7580678	100	Lithium hydride
109773	500	Malononitrile
12108133	100	Manganese, tricarbonyl methylcyclopentadienyl
51752	10	Mechlorethamine
950107	500	Mephosfolan
2032657	500	Mercaptodimethur
1600277	500	Mercuric acetate
7487947	500	Mercuric chloride
21908532	500	Mercuric oxide
10476956	500	Methacrolein diacetate
760930	500	Methacrylic anhydride
126987	500	Methacrylonitrile
920467	100	Methacryloyl chloride
30674807	100	Methacryloyloxyethyl isocyanate
10265926	100	Methamidophos
62759	500	Methanamine, N-methyl-N-nitroso-

Alphabetic Listing of Extremely Hazardous Substances (EHSs).
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CAS Number	Tier II Reporting Threshold (in pounds)	Chemical Name
107302	100	Methane, chloromethoxy -
624839	500	Methane, isocyanato-
542881	100	Methane, oxybis[chloro-
509148	500	Methane, tetranitro-
67663	500	Methane, trichloro-
594423	500	Methanesulfenyl chloride, trichloro-
558258	500	Methanesulfonyl fluoride
74931	500	Methanethiol
950378	500	Methidathion
2032657	500	Methiocarb
16752775	500	Methomyl
151382	500	Methoxyethylmercuric acetate
80637	500	Methyl 2-chloroacrylate
74839	500	Methyl bromide
79221	500	Methyl chlorocarbonate
79221	500	Methyl chloroformate
60344	500	Methyl hydrazine
624839	500	Methyl isocyanate
556616	500	Methyl isothiocyanate
74931	500	Methyl mercaptan
298000	100	Methyl parathion
3735237	500	Methyl phenkapton
676971	100	Methyl phosphonic dichloride
556649	500	Methyl thiocyanate
78944	10	Methyl vinyl ketone
502396	500	Methylmercuric dicyanamide
75796	500	Methyltrichlorosilane
1129415	100	Metolcarb
7786347	500	Mevinphos
315184	500	Mexacarbate
50077	500	Mitomycin C
6923224	10	Monocrotophos
2763964	500	Muscimol
505602	500	Mustard gas
62759	500	N-Nitrosodimethylamine
13463393	1	Nickel carbonyl
54115	100	Nicotine
65305	100	Nicotine sulfate
7697372	500	Nitric acid
10102439	100	Nitric oxide
98953	500	Nitrobenzene
1122607	500	Nitrocyclohexane
10102440	100	Nitrogen dioxide
51752	10	Nitrogen mustard
10102439	100	Nitrogen oxide (NO)
62759	500	Nitrosodimethylamine
991424	100	Norbormide
297972	500	O,O-Diethyl O-pyrazinyl phosphorothioate
95487	500	o-Cresol
0	10	Organorhodium Complex (PMN-82-147)
630604	100	Ouabain
23135220	100	Oxamyl
78717	500	Oxetane, 3,3-bis(chloromethyl)-
75218	500	Oxirane
106898	500	Oxirane, (chloromethyl)-
75569	500	Oxirane, methyl-
2497076	500	Oxydisulfoton
10028156	100	Ozone
1910425	10	Paraquat dichloride
2074502	10	Paraquat methosulfate
56382	100	Parathion
298000	100	Parathion-methyl
12002038	500	Paris green
19624227	500	Pentaborane
2570265	100	Pentadecylamine
79210	500	Peracetic acid
594423	500	Perchloromethyl mercaptan
108952	500	Phenol
4418660	100	Phenol, 2,2'-thiobis[4-chloro-6-methyl-
64006	500	Phenol, 3-(1-methylethyl)-, methylcarbamate
58366	500	Phenoxarsine, 10,10'-oxydi-
696286	500	Phenyl dichloroarsine
59881	500	Phenylhydrazine hydrochloride
62384	500	Phenylmercuric acetate
62384	500	Phenylmercury acetate
2097190	100	Phenylsilatrane
103855	100	Phenylthiourea
298022	10	Phorate
4104147	100	Phosacetim
947024	100	Phosfolan
75445	10	Phosgene
732116	10	Phosmet
13171216	100	Phosphamidon
7803512	500	Phosphine
2665307	500	Phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl ester
2703131	500	Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) ester
50782699	100	Phosphonothioic acid, methyl-, S-(2-(bis(1-methylethyl)amino)ethyl) O-ethyl ester

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CAS Number	Tier II Reporting Threshold (in pounds)	Chemical Name
62737	500	Phosphoric acid, 2-dichloroethenyl dimethyl ester
3254635	500	Phosphoric acid, dimethyl 4-(methylthio) phenyl ester
13194484	500	Phosphorodithioic acid O-ethyl S,S-dipropyl ester
56382	100	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester
2587908	500	Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)ester
7719122	500	Phosphorous trichloride
7723140	100	Phosphorus
7723140	100	Phosphorus (yellow or white)
10025873	500	Phosphorus oxychloride
10026138	500	Phosphorus pentachloride
1314563	10	Phosphorus pentoxide
7719122	500	Phosphorus trichloride
10025873	500	Phosphoryl chloride
57476	100	Physostigmine
57647	100	Physostigmine, salicylate (1:1)
124878	500	Picrotoxin
110894	500	Piperidine
23505411	500	Pirimifos-ethyl
75741	100	Plumbane, tetramethyl-
10124502	500	Potassium arsenite
151508	100	Potassium cyanide
506616	500	Potassium silver cyanide
2631370	500	Promecarb
107120	500	Propanenitrile
78820	500	Propanenitrile, 2-methyl-
106967	10	Propargyl bromide
107120	500	Propionitrile
542767	500	Propionitrile, 3-chloro-
70699	100	Propiophenone, 4'-amino
109615	500	Propyl chloroformate
75569	500	Propylene oxide
75558	500	Propyleneimine
2275185	100	Prothoate
129000	500	Pyrene
140761	500	Pyridine, 2-methyl-5-vinyl-
54115	100	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-
504245	500	Pyridine, 4-amino-
1124330	500	Pyridine, 4-nitro-, 1-oxide
53558251	100	Pyriminil
14167181	500	Salcomine
107448	10	Sarin
7783008	500	Selenious acid
7791233	500	Selenium oxychloride
563417	500	Semicarbazide hydrochloride
3037727	500	Silane, (4-aminobutyl)diethoxymethyl-
75774	500	Silane, chlorotrimethyl-
75785	500	Silane, dichlorodimethyl-
75796	500	Silane, trichloromethyl-
7631892	500	Sodium arsenate
7784465	500	Sodium arsenite
26628228	500	Sodium azide (Na(N3))
124652	100	Sodium cacodylate
143339	100	Sodium cyanide (Na(CN))
62748	10	Sodium fluoroacetate
13410010	100	Sodium selenate
10102188	100	Sodium selenite
10102202	500	Sodium tellurite
900958	500	Stannane, acetoxytriphenyl-
57249	100	Strychnine
60413	100	Strychnine, sulfate
3689245	500	Sulfotep
3569571	500	Sulfoxide, 3-chloropropyl octyl
7446095	500	Sulfur dioxide
7446095	500	Sulfur dioxide (anhydrous)
7783600	100	Sulfur fluoride (SF4), (T-4)-
7783600	100	Sulfur tetrafluoride
7446119	100	Sulfur trioxide
7664939	500	Sulfuric acid
77816	10	Tabun
13494809	500	Tellurium
7783804	100	Tellurium hexafluoride
107493	100	Tepp
13071799	100	Terbufos
78002	100	Tetraethyl lead
107493	100	Tetraethyl pyrophosphate
3689245	500	Tetraethyldithiopyrophosphate
597648	100	Tetraethyltin
75741	100	Tetramethyllead
509148	500	Tetranitromethane
7791120	100	Thallium chloride TlCl
10031591	100	Thallium sulfate
6533739	100	Thallium(I) carbonate
7446186	100	Thallium(I) sulfate
6533739	100	Thallous carbonate
7791120	100	Thallous chloride
2757188	100	Thallous malonate
7446186	100	Thallous sulfate

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CAS Number	Tier II Reporting Threshold (in pounds)	Chemical Name
2231574	500	Thiocarbazide
556649	500	Thiocyanic acid, methyl ester
39196184	100	Thiofanox
74931	500	Thiomethanol
297972	500	Thionazin
108985	500	Thiophenol
79196	100	Thiosemicarbazide
5344821	100	Thiourea, (2-chlorophenyl)-
614788	500	Thiourea, (2-methylphenyl)-
86884	500	Thiourea, 1-naphthalenyl-
7550450	100	Titanium chloride (TiCl4) (T-4)-
7550450	100	Titanium tetrachloride
584849	500	Toluene-2,4-diisocyanate
91087	100	Toluene-2,6-diisocyanate
8001352	500	Toxaphene
110576	500	trans-1,4-Dichloro-2-butene
110576	500	trans-1,4-Dichlorobutene
1031476	500	Triamiphos
24017478	500	Triazofos
1558254	100	Trichloro(chloromethyl)silane
27137855	500	Trichloro(dichlorophenyl)silane
76028	500	Trichloroacetyl chloride
115219	500	Trichloroethylsilane
594423	500	Trichloromethanesulfenyl chloride
327980	500	Trichloronate
98135	500	Trichlorophenylsilane
998301	500	Triethoxysilane
75774	500	Trimethylchlorosilane
824113	100	Trimethylolpropane phosphite
1066451	500	Trimethyltin chloride
639587	500	Triphenyltin chloride
555771	100	Tris(2-chloroethyl)amine
2001958	500	Valinomycin
1314621	100	Vanadium pentoxide
108054	500	Vinyl acetate
108054	500	Vinyl acetate monomer
81812	500	Warfarin
129066	100	Warfarin sodium
28347139	100	Xylylene dichloride
1314847	500	Zinc phosphide
58270089	100	Zinc, dichloro(4,4-dimethyl-5((((methylamino)carbonyl)oxy)imino)pentanenitrile)-, (T-4)-