



# County of San Diego

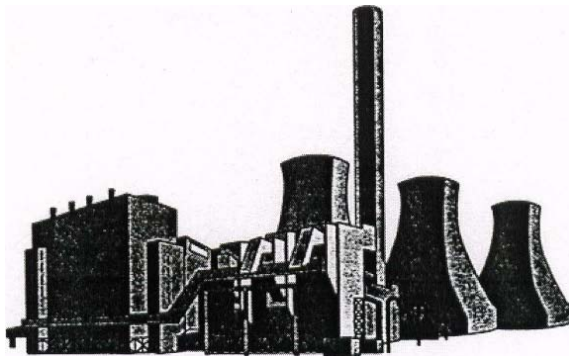
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## California Accidental Release Prevention (CalARP) Screening, Disclaimer, and Deregistration Guidelines

June 2011



*"Environmental and public health through leadership, partnership and science"*

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# **California Accidental Release Prevention (CalARP)**

## **Screening, Disclaimer, and Deregistration Guidelines**

These guidelines have been developed by the County of San Diego CUP to determine which facilities in San Diego County need to prepare a Federal Risk Management Plan, a California Risk Management Plan, or both.

### **Introduction**

On January 31, 1994 the U.S. EPA promulgated a final rule under provisions of the Clean Air Act (CAA) Amendments section 112(r) for the prevention of accidental releases of hazardous substances. The rule establishes a list of chemicals and threshold quantities that identify facilities subject to subsequent accident prevention regulations. In October 1996 California passed Senate Bill 1889 now incorporated as Health & Safety Code, Sections 25531-25534.3. This bill established the merging of the federal and state programs for the prevention of accidental releases of regulated toxic and flammable substances. The Office of Emergency Services (OES) has adopted regulations to eliminate the need for two separate and distinct risk management programs. The incorporation of the federal and state requirements has been designated as the California Accidental Release Prevention Program (CalARP).

The San Diego County Department of Environmental Health, Hazardous Materials Division (HMD) is the Certified Unified Program Agency (CUPA) responsible for the implementation of the CalARP program in San Diego County. HMD screens facilities in San Diego County to determine those that are subject to the regulatory requirements.

### **I. SCOPE AND DEFINITIONS**

#### **Who is subject to CalARP regulations?**

Any owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process.

#### **What is considered a stationary source?**

A stationary source means any building, structures, equipment, installations, or substance emitting stationary activities which belong to the same industrial group, that are located on one or more contiguous properties, and that are under control of the same person (or persons under common control), and from which an accidental release may occur. A stationary source includes transportation containers that are no longer under active shipping papers and transportation containers connected to equipment at the stationary source for the purposes of temporary storage, loading, or unloading.

#### **What is considered a process?**

A process means any activity involving a regulated substance, including any use, storage, manufacturing, handling, or on-site movement of such substances, or combination of these activities. Any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, is considered a single process. The owner or operator of the stationary source must make a reasonable determination as to whether two or more vessels may be involved in the same accident, or whether a release from one vessel may be anticipated to lead to a release from another. The owner/operator should document his decision as to whether the individual vessels do or do not constitute as single process.

## **SCOPE AND DEFINITIONS** (continued)

### **What is a regulated substance?**

A regulated substance means any substance listed in Section 2770.5 of Title 19 of the California Code of Regulations (19 CCR). This includes the federal list of toxic substances (Table 1), the federal list of flammable substances (Table 2) and the state list of toxic substances (Table 3).

### **What is a threshold quantity?**

A threshold quantity means the quantity specified for a regulated substance listed in 19 CCR, Section 2770.5 and determined to be present at a stationary source.

## **II. SCREENING, DISCLAIMER, AND DEREGISTRATION PROCESS**

### **A. Screening**

#### **How will the HMD determine if a facility is required to develop an RMP?**

The HMD will determine if a facility is required to develop a RMP by using one or more the following screening steps:

1. Database review of hazardous materials inventory submitted by the facility.
2. Screening new businesses as they proceed through the AB3205 process.
3. Mailing a survey form to facilities requesting process related information.
4. Site visits to clarify process information if needed.

#### **What will be the cost to each business for the screening process?**

The HMD will charge businesses a review fee at the current Environmental Health Specialist hourly fee for all review time and site related involvement (Step 4 above) in the screening process. To find out the current rate, businesses may call the Hazardous Materials Duty Desk at 858-505-6880.

#### **What do facilities need to complete and submit to HMD as part of the screening process?**

Facilities must complete a screening form, HM-9223, for each regulated substance in every process onsite. Screening form is attached.

#### **Who can businesses contact for assistance or additional information?**

Additional information and assistance can be obtained by calling the CalARP Coordinator at 858-505-6880.

### **B. Disclaimer**

If a facility has completed the CalARP screening process and determined that they are not required to complete an RMP, they are required to fill out a CalARP Regulated Substance Disclaimer form (HM-9221). By completing this form, the facility is certifying that they have properly screened their process and are not subject to the CalARP regulations.

### **C. Deregistration**

If a facility's process using a regulated substance ever falls below the threshold quantity due to process modifications, reductions in the amounts of regulated substances used, or closure of the process, the facility must deregister from the CalARP Program. This will be accomplished by the facility completing the CalARP Deregistration form (HM-9221) and a site inspection by a member of the HMD.

**California Accidental Release Prevention Program**

**III. CalARP Screening Worksheet**

(Please Print or Type- See form instructions on the reverse)



**COUNTY OF SAN DIEGO CUPA**  
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 (858) 505-6880 FAX (858) 505-6848

**Cal-ARP SCREENING WORKSHEET**

**I. Facility Owner/Operator Information**

Name of Facility: _____	Permit #: _____
Facility's Address: _____	
Street No.      Street Name      City      State      Zip Code	
Mailing Address _____	
(if different from above): Street No.      Street Name      City      State      Zip Code	
Facility's Contact Person: _____	Phone Number _____
_____ Last      _____ First      _____ M.I.	

**II. Regulated Substances Onsite**

Regulated Substance: _____	CAS #: _____	CAA Title V permit? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	% Weight: _____	Process Max. Qty. _____ (lbs.)
Process Description (i.e. use, storage, manufacturing, handling, onsite movement, etc.) _____				
Regulated Substance: _____	CAS #: _____	CAA Title V permit? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	% Weight: _____	Process Max. Qty. _____ (lbs.)
Process Description (i.e. use, storage, manufacturing, handling, onsite movement, etc.) _____				
Regulated Substance: _____	CAS #: _____	CAA Title V permit? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	% Weight: _____	Process Max. Qty. _____ (lbs.)
Process Description (i.e. use, storage, manufacturing, handling, onsite movement, etc.) _____				

HM-9223 (06/11)

**California Accidental Release Prevention Program**  
**CalARP Screening Worksheet Instructions**

Complete one worksheet for each facility site:

**I. Facility Owner/Operator Information**

**Facility Name:** Enter the name of your facility (business name).

**Permit #:** This number is on your Unified Program Facility Permit (UPFP). It is site specific. If you do not know your UPFP number, leave this blank.

**Facility Address:** Enter the physical address of your facility; include the city and zip code.

**Facility Mailing Address:** Enter your mailing address. If the mailing address is the same as the site address, leave this section blank.

**Contact:** Enter the name of the person who should be contacted if additional information or clarification is required.

**Phone Number:** Enter the phone number of the contact person. Include area code.

**II. Regulated Substances Onsite**

Complete this section for each Regulated Substance you have in a process at or above the threshold quantity. Use the attached Regulated Substance Tables (1, 2, and 3) to determine if you have a regulated substance and corresponding threshold quantity. **Please Note:** Some toxic regulated substances appear on both Table 1 and Table 3. You must use the lowest threshold quantity when making your determination to report a regulated substance.

To determine if a mixture is at or above the threshold quantity, apply the following rules:

1. Exclude the material if the concentration of the regulated substance in the mixture is <1% by weight.
2. If the concentration of the regulated substance is a  $\geq 1\%$  or greater by weight in the mixture, use the % weight to determine the amount of pounds that are present in the process. Exclude the toxic regulated substances if their partial pressure in the mixture is <10 mmHg.
3. Exclude flammables if the mixture does not have an NFPA flammability hazard rating of 4. This includes substances with a flash point below 22.8°C (73<sup>0</sup> F) or a boiling point below 37.8<sup>0</sup> C (100<sup>0</sup> F)]. Otherwise the entire weight of the flammable mixture must be treated as a regulated substance.

**Regulated Substance:** Enter the name of the regulated substance from either Table 1, 2, or 3.

**CAS #:** Enter the Chemical Abstract Number (CAS#) for the regulated substance from either Table 1, 2, or 3.

**Clean Air Act Title V Permit:** State and local operating permit programs are required under Title V of the Clean Air Act (40 CFR Part 70). Check the "Yes" box if you are required by the Air Pollution Control District to comply with the Title V requirements of the Clean Air Act. Check "No" if you are not required to comply with Title V of the Clean Air Act. If you are not sure, check the "Unknown" box.

**% Weight:** If the regulated substance is in a mixture, provide the % weight of the regulated substance in the mixture.

**Note:** Only required for toxic chemical mixtures, not flammables.

**Process Max. Quantity (lbs):** Maximum quantity in pounds of the regulated substance or mixture in the process.

**Process Description:** Describe the process that uses the regulated substance. A "process" means any activity involving a regulated substance, including any use, storage, manufacturing, handling, or on-site movement of such substances, or combination of these activities. Any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, is considered a single process.

## California Accidental Release Prevention Program

### IV. Sample CalARP Screening Worksheets

The following examples will assist facilities in completing their screening worksheets:

#### Sample Worksheet #1

**Scenario:**

A facility has a refrigeration system consisting of an expansion valve, evaporator, compressor, condenser, and receiver. It is a closed loop system. The system holds 15,000 pounds of anhydrous ammonia. The facility also has a blue print machine with four 150-pound interconnected cylinders of anhydrous ammonia. The facility has determined that they are not subject to Title V air permitting requirements.

**Solution:**

The threshold quantity for anhydrous ammonia is given as 10,000 pounds in Table #1 and 500 pounds in Table in #3. The CAS Number is 7664-41-7. There are two separate processes, the refrigeration system, and the blueprint machine. The ammonia in the refrigeration process is above the threshold quantity in Table #1. The ammonia in the blueprint machine process is above the threshold quantity in Table #3.

<b>II. Regulated Substances Onsite</b>				
Regulated Substance: <b><u>Anhydrous ammonia</u></b>	CAS # <b><u>7664-41-7</u></b>	CAA Title V Permit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	% Weight: <b><u>NA</u></b>	Process Max. Qty. <b><u>15,000 (lbs.)</u></b>
Process Description (i.e. use, storage, manufacturing, handling, onsite movement, etc.)  <b><u>Closed loop refrigeration system consisting of an expansion valve, evaporator, compressor, condenser, and receiver.</u></b>				
Regulated Substance: <b><u>Anhydrous ammonia</u></b>	CAS # <b><u>7664-41-7</u></b>	CAA Title V Permit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	% Weight: <b><u>NA</u></b>	Process Max. Qty. <b><u>600 (lbs.)</u></b>
Process Description (i.e. use, storage, manufacturing, handling, onsite movement, etc.)  <b><u>Blueprint machine with 4-150 pound interconnected cylinders</u></b>				

## California Accidental Release Prevention Program

### IV. Sample CalARP Screening Worksheets

#### Sample Worksheet #2

**Scenario:**

A facility has three 1,000-gallon interconnected propane tanks used for heating purposes. The facility also has a 5,000-gallon tank of 10% hydrofluoric acid used in the manufacture of semiconductor chips. The partial pressure of the hydrofluoric acid in the tank is less than 10 mmHg. The facility does not know if it is required to comply with Title V air permitting requirements.

**Solution:**

Using 5lbs/gallon as the conversion rate for propane, there are 15,000 pounds of propane in the process. The propane is above the threshold quantity of 10,000 pounds in Table #2. The CAS Number for propane is 74-98-6. Fuels used onsite are currently excluded from preparing an RMP under Section 2770.4.1, Title 19 CCR. Because the hydrofluoric acid in the 5,000-gallon tank has a partial pressure lower than 10 mmHg, it would not need to be considered. There are 1,718 pounds (3 x 55 gallons x 8.33 lbs/gallon x 1.25 ) of hydrofluoric acid in storage. This is above the 1,000-pound threshold quantity in Table #1 and the 100-pound threshold quantity in Table #3. However, Table #1 specifies concentrations of 50% or greater of hydrofluoric acid and although Table #3 does not specify a concentration, the partial pressure of the solution is less than 10 mmHg. Therefore, the hydrofluoric acid will not require an RMP.

<b>II. Regulated Substances Onsite</b>				
Regulated Substance: <u>Propane</u>	CAS # <u>74-98-6</u>	CAA Title V Permit? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	% Weight: <u>NA</u>	Process Max. Qty. <u>15,000 (lbs.)</u>
Process Description (i.e. use, storage, manufacturing, handling, onsite movement, etc.)  <b><u>Three man folded 1000 gallon propane storage tanks used for on-site heating purposes.</u></b>				
Regulated Substance: <u>Hydrofluoric Acid</u>	CAS # <u>7664-39-3</u>	CAA Title V Permit? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	% Weight: <u>10%</u>	Process Max. Qty. <u>1718 lbs</u>
Process Description (i.e. use, storage, manufacturing, handling, onsite movement, etc.)  <b><u>Hydrofluoric acid used at a 10% concentration. Below 10 mmHg partial pressure.</u></b>				



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**VI. CalARP REGULATED SUBSTANCE DISCLAIMER/DEREGISTRATION**

**I. IDENTIFICATION**

FACILITY ID# (Same as UPF Permit#)										Date Submitted:	
3	7		0	0	0						
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)										BUSINESS PHONE	
BUSINESS SITE ADDRESS											
CITY										CA	ZIP CODE
BUSINESS OPERATOR NAME										BUSINESS OPERATOR PHONE	
MAILING ADDRESS											
CITY								STATE	ZIP CODE		

**II. THE FOLLOWING REGULATED SUBSTANCES ARE NO LONGER HANDLED AT THE ABOVE SITE**

1.	Reason for discontinued use/ or replacement chemical that is not a regulated substance.
2.	Reason for discontinued use/ or replacement chemical that is not a regulated substance.
3.	Reason for discontinued use/ or replacement chemical that is not a regulated substance.

**III. THE FOLLOWING REGULATED SUBSTANCES ARE HANDLED BELOW THEIR THRESHOLD**

NAME OF SUBSTANCE	TOTAL AMOUNT STORED ON SITE	SIZE OF LARGEST STORAGE CONTAINER
1.		
2.		
3.		

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. I understand that if I submit a disclaimer and are now or in the future subject to the RMP requirements, a new RMP will be required. The RMP will be as for a new process and the regulated substance(s) cannot be brought on site or increased above the threshold until a complete RMP has been submitted.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	134	NAME OF DOCUMENT PREPARER	135
NAME OF SIGNER (print)	136	TITLE OF SIGNER	137	

<b>O F F I C E  U S E</b>	<b>INSTRUCTIONS TO CLERICAL STAFF FOR DISCLAIMER ACCEPTANCE</b>	DISCLAIMER ACCEPTED ____/____/____	BY: _____
		<input type="checkbox"/> Change the status of site to non-CalARP (Bus. Activities in KIVA). Change Route to _____. <input type="checkbox"/> Remove KIVA billing codes: 6HCUPA3 6HRMP1 6HRMP2 (Quantities=0 in KIVA) <input type="checkbox"/> Update inventory for: _____ DELETE, AVG _____ MAX _____ <input type="checkbox"/> Enter Remark "Verify Inventory or Use of _____, at _____. CalARP disclaimer submitted ____/____/____ indicated below TPQ/ discontinued use." <input type="checkbox"/> Deactivate	
	HIRT SITE <input type="checkbox"/> YES <input type="checkbox"/> NO	REMARKS: _____	

HM-9221 (06/11)

# CalARP REGULATED SUBSTANCE DISCLAIMER/DEREGISTRATION FORM

This form is to be completed by facilities that no longer handle regulated substances and by facilities that have reduced their usage of a regulated substance below the threshold quantities in a process.

## I. IDENTIFICATION

**FACILITY ID #** - Enter your 6 character Permit # on your Unified Program Facility Permit (UPFP). If you do not have a UPFP leave this blank.

**BUSINESS NAME** - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA"- Doing Business As.

**DATE** - Enter the date (YYYYMMDD) the disclaimer was prepared.

**BUSINESS PHONE** - Enter the phone number, area code first, and any extension.

**BUSINESS SITE ADDRESS** - Enter the street address where the facility is located. No post office box numbers are allowed. This information must provide a means to geographically locate the facility. If the mailing address is different, complete #113- #116.

**CITY** - Enter the city or unincorporated area in which business site is located.

**ZIP CODE** - Enter the zip code of business site. The extra 4-digit zip may also be added.

**BUSINESS OPERATOR NAME** - Enter the name of the business operator who handles Cal-ARP, RMP issues.

**BUSINESS OPERATOR PHONE** - Enter business operator phone number, if different from business phone, area code first, and any extension.

**MAILING ADDRESS** - Enter the mailing address where business related correspondence should be sent, if different from business site address.

**MAILING ADDRESS OWNER CITY** - Enter the name of the city for the mailing address.

**MAILING ADDRESS OWNER STATE** - Enter the 2 character state abbreviation for the mailing address.

**MAILING ADDRESS OWNER ZIP CODE** - Enter the zip code for the mailing address. The extra 4-digit zip may also be added.

## II. THE FOLLOWING REGULATED SUBSTANCES ARE NO LONGER HANDLED AT THE ABOVE SITE

**1, 2, or 3.** List the name of the regulated substance, and CAS Number. List the reason for discontinued use of a regulated substance, or the chemical that is not a Regulated Substance used as a substitute.

## III. THE FOLLOWING REGULATED SUBSTANCES ARE HANDLED BELOW THEIR THRESHOLD QUANTITIES

**1, 2, or 3.** List the name of the regulated substance, and CAS Number.

**TOTAL AMOUNT STORED ON SITE**- the total quantity of the regulated substance onsite in all containers, tanks, vessels, and process equipment.

**SIZE ON LARGEST STORAGE CONTAINER**-the actual size of the largest storage container or tank.

**SIGNATURE DATE** - Enter the date that the document was signed (YYYYMMDD).

**NAME OF DOCUMENT PREPARE** - Enter the full name of the person who prepared the inventory submittal information.

**NAME OF SIGNER** - Enter the full printed name of the person signing the page. The signer certifies to a familiarity with the information submitted and that based on the signer's inquiry of those individuals responsible for obtaining the information, all the information submitted is true, accurate and complete.

**SIGNATURE OF OWNER/ OPERATOR OR DESIGNATED REPRESENTATIVE** - The Business Owner/Operator, or officially designated representative of the Owner/Operator, shall sign in the space provided. This signature certifies that the signer is familiar with the information submitted and that based on the signer's inquiry of those individuals responsible for obtaining the information it is the Signer's belief that **submitted information is true, accurate and complete.**

**TITLE OF SIGNER** - Enter the title of the person signing the page.

**If your facility submits a disclaimer and is now or in the future subject to the RMP requirements, you will need to submit a new RMP and be subject to the RMP review process. The RMP will be considered for a new process and you will be prohibited from bringing the regulated substance(s) on site or increasing the quantity above the threshold until a complete RMP has been submitted.**

# California Accidental Release Prevention Program (CalARP)

## VI. Federal Regulated Substances Table 1

Source: Final CalARP Regulations 11-28-04; Page 57

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 1. Federal Regulated Substances List and Threshold Quantities for Accidental Release Prevention**

Chemical Name	Also on Table 3 <sup>f</sup>	CAS Number	Threshold quantity (lbs)	Basis for listing
Acrolein [2-Propenal]	yes	107-02-8	5,000	b
Acrylonitrile [2-Propenenitrile]	yes	107-13-1	20,000	b
Acrylyl chloride [2-Propenoyl chloride]	yes	814-68-6	5,000	b
Allyl alcohol [2-Propen-1-ol]	yes	107-18-6	15,000	b
Allylamine [2-Propen-1-amine]	yes	107-11-9	10,000	b
Ammonia (anhydrous)	yes	7664-41-7	10,000	a,b
Ammonia (conc 20% or greater)	yes	7664-41-7	20,000	a,b
Arsenous trichloride	yes	7784-34-1	15,000	b
Arsine	yes	7784-42-1	1,000	b
Boron trichloride [Borane, trichloro-]	yes	10294-34-5	5,000	b
Boron trifluoride [Borane, trifluoro-]	yes	7637-07-2	5,000	b
Boron trifluoride compound with methyl ether(1:1)[Boron, trifluoro [oxybis(methane)]], T-4	yes	353-42-4	15,000	b
Bromine	yes	7726-95-6	10,000	a,b
Carbon disulfide	yes	75-15-0	20,000	b
Chlorine	yes	7782-50-5	2,500	a,b
Chlorine dioxide [Chlorine oxide (ClO <sub>2</sub> )]	no	10049-04-4	1,000	c
Chloroform [Methane, trichloro-]	yes	67-66-3	20,000	b
Chloromethyl ether [Methane, oxybis(chloro-)]	yes	542-88-1	1,000	b
Chloromethyl methyl ether [Methane, chloromethoxy-]	yes	107-30-2	5,000	b
Crotonaldehyde [2-Butenal]	yes	4170-30-3	20,000	b
Crotonaldehyde, (E)- [2-Butenal, (E)-]	yes	123-73-9	20,000	b
Cyanogen chloride	no	506-77-4	10,000	c
Cyclohexylamine [Cyclohexanamine]	yes	108-91-8	15,000	b
Diborane	yes	19287-45-7	2,500	b
Dimethyldichlorosilane [Silane, dichlorodimethyl-]	yes	75-78-5	5,000	b
1,1-Dimethylhydrazine [Hydrazine, 1,1-dimethyl-]	yes	57-14-7	15,000	b
Epichlorohydrin [Oxirane, (chloromethyl)-]	yes	106-89-8	20,000	b
Ethylenediamine [1,2-Ethanediamine]	yes	107-15-3	20,000	b
Ethyleneimine [Aziridine]	yes	151-56-4	10,000	b
Ethylene oxide [Oxirane]	yes	75-21-8	10,000	a,b
Fluorine	yes	7782-41-4	1,000	b
Formaldehyde (solution)	yes	50-00-0	15,000	b
Furan	yes	110-00-9	5,000	b
Hydrazine	yes	302-01-2	15,000	b
Hydrochloric acid (conc 37% or greater)	no	7647-01-0	15,000	d
Hydrocyanic acid	yes	74-90-8	2,500	a,b
Hydrogen chloride (anhydrous) [Hydrochloric acid]	yes	7647-01-0	5,000	a
Hydrogen fluoride/Hydrofluoric acid (conc 50% or greater) [Hydrofluoric acid]	yes	7664-39-3	1,000	a,b
Hydrogen selenide	yes	7783-07-5	500	b
Hydrogen sulfide	yes	7783-06-4	10,000	a,b
Iron, pentacarbonyl- [Iron carbonyl (Fe(CO) <sub>5</sub> ), (TB-5-11)]	yes	13463-40-6	2,500	b
Isobutyronitrile [Propanenitrile, 2-methyl-]	yes	78-82-0	20,000	b
Isopropyl chloroformate [Carbonochloridic acid, 1-methylethyl ester]	yes	108-23-6	15,000	b
Methacrylonitrile [2-Propenenitrile, 2-methyl-]	yes	126-98-7	10,000	b
Methyl chloride [Methane, chloro-]	no	74-87-3	10,000	a

# California Accidental Release Prevention Program (CalARP)

## VI. Federal Regulated Substances-Table 1

Source: Final CalARP Regulations 11-28-04; Page 58

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 1. Federal Regulated Substances List and Threshold Quantities for Accidental Release Prevention**  
(Continued)

Chemical Name	Also on Table 3 <sup>f</sup>	CAS Number	Threshold quantity (lbs)	Basis for listing
Methyl chloroformate [Carbonochloridic acid, methylester]	yes	79-22-1	5,000	b
Methyl hydrazine [Hydrazine, methyl-]	yes	60-34-4	15,000	b
Methyl isocyanate [Methane, isocyanato-]	yes	624-83-9	10,000	a,b
Methyl mercaptan [Methanethiol]	yes	74-93-1	10,000	b
Methyl thiocyanate [Thiocyanic acid, methyl ester]	yes	556-64-9	20,000	b
Methyltrichlorosilane [Silane, trichloromethyl-]	yes	75-79-6	5,000	b
Nickel carbonyl	yes	13463-39-3	1,000	b
Nitric acid (conc 80% or greater)	yes	7697-37-2	15,000	b
Nitric oxide [Nitrogen oxide (NO)]	yes	10102-43-9	10,000	b
Oleum (Fuming Sulfuric acid) [Sulfuric acid, mixture with sulfur trioxide] <sup>1</sup>	no	8014-95-7	10,000	e
Peracetic acid [Ethaneperoxoic acid]	yes	79-21-0	10,000	b
Perchloromethylmercaptan [Methanesulfenyl chloride, trichloro-]	yes	594-42-3	10,000	b
Phosgene [Carbonic dichloride]	yes	75-44-5	500	a,b
Phosphine	yes	7803-51-2	5,000	b
Phosphorus oxychloride [Phosphoryl chloride]	yes	10025-87-3	5,000	b
Phosphorus trichloride [Phosphorous trichloride]	yes	7719-12-2	15,000	b
Piperidine	yes	110-89-4	15,000	b
Propionitrile [Propanenitrile]	yes	107-12-0	10,000	b
Propyl chloroformate [Carbonochloridic acid, propylester]	yes	109-61-5	15,000	b
Propyleneimine [Aziridine, 2-methyl-]	yes	75-55-8	10,000	b
Propylene oxide [Oxirane, methyl-]	yes	75-56-9	10,000	b
Sulfur dioxide (anhydrous)	yes	7446-09-5	5,000	a,b
Sulfur tetrafluoride [Sulfur fluoride (SF <sub>4</sub> ), (T-4)-]	yes	7783-60-0	2,500	b
Sulfur trioxide	yes	7446-11-9	10,000	a,b
Tetramethyllead [Plumbane, tetramethyl-]	yes	75-74-1	10,000	b
Tetranitromethane [Methane, tetranitro-]	yes	509-14-8	10,000	b
Titanium tetrachloride [Titanium chloride (TiCl <sub>4</sub> ) (T-4)-]	yes	7550-45-0	2,500	b
Toluene 2,4-diisocyanate [Benzene, 2,4-diisocyanato-1-methyl-] <sup>1</sup>	yes	584-84-9	10,000	a
Toluene 2,6-diisocyanate [Benzene, 1,3-diisocyanato-2-methyl-] <sup>1</sup>	yes	91-08-7	10,000	a
Toluene diisocyanate (unspecified isomer) [Benzene, 1,3-diisocyanatomethyl-] <sup>1</sup>	no	26471-62-5	10,000	a
Trimethylchlorosilane [Silane, chlorotrimethyl-]	yes	75-77-4	10,000	b
Vinyl acetate monomer [Acetic acid ethenyl ester]	yes	108-05-4	15,000	b

1 The exemption in Section 2770.2(b)(1)(B) regarding portions of a process where this regulated substance is handled at partial pressures below 10 mm Hg does not apply to this 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.
- f This column identifies substances which may appear on Table 3. Table 3 may not have concentration limitations.

# California Accidental Release Prevention Program (CalARP)

## VII. Federal Regulated Substances-Table 2

Source: Final CalARP Regulations 11-28-04; page 59

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 2. Federal Regulated Flammable Substances List <sup>1</sup> and Threshold Quantities for Accidental Release Prevention**

Chemical Name	CAS Number*	Threshold quantity (lbs)	Basis for listing
Acetaldehyde	75-07-0	10,000	g
Acetylene [Ethyne]	74-86-2	10,000	f
Bromotrifluoroethylene [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
Ethylacetylene [1-Butyne]	107-00-6	10,000	f
Ethylamine [Ethanamine]	75-04-7	10,000	f
Ethylchloride [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

# California Accidental Release Prevention Program (CalARP)

## VII. Federal Regulated Substances-Table 2

Source: Final CalARP Regulations 11-28-04; page 60

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 2. Federal Regulated Flammable Substances List<sup>1</sup> and Threshold Quantities for Accidental Release Prevention**  
(Continued)

Chemical Name	CAS Number*	Threshold quantity (lbs)	Basis for listing
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

<sup>1</sup> 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 chapter (see Section 2770.4.1).

**Note - Basis for Listing:**

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

# California Accidental Release Prevention Program (CalARP)

## VIII. Federal Regulated Substances-Table 3

Source: Final CalARP Regulations 11-28-04; page 61

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 3. State Regulated Substances List and Threshold Quantities for Accidental Release Prevention**

Chemical Name	Also on Table 1 <sup>1</sup>	CAS Number	State Threshold Quantity (lbs)
Acetone Cyanohydrin <sup>2</sup>	no	75-86-5	1,000
Acetone Thiosemicarbazide	no	1752-30-3	1,000/10,000 <sup>3</sup>
Acrolein	yes	107-02-8	500
Acrylamide	no	79-06-1	1,000/10,000 <sup>3</sup>
Acrylonitrile	yes	107-13-1	10,000
Acrylyl Chloride	yes	814-68-6	100
Aldicarb	no	116-06-3	100/10,000 <sup>3</sup>
Aldrin	no	309-00-2	500/10,000 <sup>3</sup>
Allyl Alcohol	yes	107-18-6	1,000
Allylamine	yes	107-11-9	500
Aluminium Phosphide <sup>4</sup>	no	20859-73-8	500
Aminopterin	no	54-62-6	500/10,000 <sup>3</sup>
Amiton Oxalate	no	3734-97-2	100/10,000 <sup>3</sup>
Ammonia <sup>5</sup>	yes	7664-41-7	500
Aniline <sup>2</sup>	no	62-53-3	1,000
Antimycin A	no	1397-94-0	1,000/10,000 <sup>3</sup>
ANTU	no	86-88-4	500/10,000 <sup>3</sup>
Arsenic Pentoxide	no	1303-28-2	100/10,000 <sup>3</sup>
Arsenous Oxide	no	1327-53-3	100/10,000 <sup>3</sup>
Arsenous Trichloride	yes	7784-34-1	500
Arsine	yes	7784-42-1	100
Azinphos-Ethyl	no	2642-71-9	100/10,000 <sup>3</sup>
Azinphos-Methyl	no	86-50-0	10/10,000 <sup>3</sup>
Benzene, 1-(Chloromethyl)-4-Nitro-	no	100-14-1	500/10,000 <sup>3</sup>
Benzeneearsonic Acid	no	98-05-5	10/10,000 <sup>3</sup>
Benzimidazole, 4,5-Dichloro-2-(Trifluoromethyl)-	no	3615-21-2	500/10,000 <sup>3</sup>
Benzotrithloride <sup>2</sup>	no	98-07-7	100
Bicyclo[2.2.1] Heptane-2-Carbonitrile, 5-Chloro- 6-(((Methylamino) Carbonyl)Oxy)Imino)-, (1s-(1-alpha, 2-beta, 4-alpha, 5-alpha, 6E))-.	no	15271-41-7	500/10,000 <sup>3</sup>
Bis(Chloromethyl) Ketone	no	534-07-6	10/10,000 <sup>3</sup>
Bitoscanate	no	4044-65-9	500/10,000 <sup>3</sup>
Boron Trichloride	yes	10294-34-5	500
Boron Trifluoride	yes	7637-07-2	500
Boron Trifluoride Compound w/ Methyl Ether (1:1)	yes	353-42-4	1,000
Bromadiolone	no	28772-56-7	100/10,000 <sup>3</sup>
Bromine	yes	7726-95-6	500
Cadmium Oxide	no	1306-19-0	100/10,000 <sup>3</sup>
Cadmium Stearate	no	2223-93-0	1,000/10,000 <sup>3</sup>
Calcium Arsenate	no	7778-44-1	500/10,000 <sup>3</sup>
Camphechlor	no	8001-35-2	500/10,000 <sup>3</sup>
Cantharidin	no	56-25-7	100/10,000 <sup>3</sup>

# California Accidental Release Prevention Program (CalARP)

## VIII. Federal Regulated Substances-Table 3

Source: Final CalARP Regulations 11-28-04; page 62

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 3. State Regulated Substances List and Threshold Quantities  
for Accidental Release Prevention  
(Continued)**

Chemical Name	Also on Table 1 <sup>1</sup>	CAS Number	State Threshold Quantity (lbs)
Carbachol Chloride	no	51-83-2	500/10,000 <sup>3</sup>
Carbamic Acid, Methyl-,o-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene) Amino)-.	no	26419-73-8	100/10,000 <sup>3</sup>
Carbofuran	no	1563-66-2	10/10,000 <sup>3</sup>
Carbon Disulfide	yes	75-15-0	10,000
Chlorine	yes	7782-50-5	100
Chloroquat Chloride	no	999-81-5	100/10,000 <sup>3</sup>
Chloroacetic Acid	no	79-11-8	100/10,000 <sup>3</sup>
Chloroform	yes	67-66-3	10,000
Chloromethyl Ether	yes	542-88-1	100
Chloromethyl Methyl Ether	yes	107-30-2	100
Chlorophacinone	no	3691-35-8	100/10,000 <sup>3</sup>
Chloroxuron	no	1982-47-4	500/10,000 <sup>3</sup>
Chromic Chloride	no	10025-73-7	1/10,000 <sup>3</sup>
Cobalt Carbonyl	no	10210-68-1	10/10,000 <sup>3</sup>
Cobalt, ((2,2'-(1,2-Ethane diylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N',O,O')-.	no	62207-76-5	100/10,000 <sup>3</sup>
Colchicine	no	64-86-8	10/10,000 <sup>3</sup>
Coumaphos	no	56-72-4	100/10,000 <sup>3</sup>
Coumatetralyl	no	5836-29-3	500/10,000 <sup>3</sup>
Cresol, o-	no	95-48-7	1,000/10,000 <sup>3</sup>
Crimidine	no	535-89-7	100/10,000 <sup>3</sup>
Crotonaldehyde	yes	4170-30-3	1,000
Crotonaldehyde, (E)-	yes	123-73-9	1,000
Cyanogen Bromide	no	506-68-3	500/10,000 <sup>3</sup>
Cyanogen Iodide	no	506-78-5	1,000/10,000 <sup>3</sup>
Cyanuric Fluoride	no	675-14-9	100
Cycloheximide	no	66-81-9	100/10,000 <sup>3</sup>
Cyclohexylamine	yes	108-91-8	10,000
Decaborane(14)	no	17702-41-9	500/10,000 <sup>3</sup>
Dialifor	no	10311-84-9	100/10,000 <sup>3</sup>
Diborane	yes	19287-45-7	100
Diepoxybutane <sup>2</sup>	no	1464-53-5	500
Digitoxin	no	71-63-6	100/10,000 <sup>3</sup>
Digoxin	no	20830-75-5	10/10,000 <sup>3</sup>
Dimethoate	no	60-51-5	500/10,000 <sup>3</sup>
Dimethyldichlorosilane	yes	75-78-5	500
Dimethylhydrazine	yes	57-14-7	1,000
Dimethyl-p-Phenylenediamine	no	99-98-9	10/10,000 <sup>3</sup>
Dimethyl Sulfate <sup>2</sup>	no	77-78-1	500
Dimetilan	no	644-64-4	500/10,000 <sup>3</sup>

# California Accidental Release Prevention Program (CalARP)

## VIII. Federal Regulated Substances-Table 3

Source: Final CalARP Regulations 11-28-04; page 63

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 3. State Regulated Substances List and Threshold Quantities  
for Accidental Release Prevention  
(Continued)**

Chemical Name	Also on Table 1 <sup>1</sup>	CAS Number	State Threshold Quantity (lbs)
Dinitroresol	no	534-52-1	10/10,000 <sup>3</sup>
Dinoseb	no	88-85-7	100/10,000 <sup>3</sup>
Dinoterb	no	1420-07-1	500/10,000 <sup>3</sup>
Diphacinone	no	82-66-6	10/10,000 <sup>3</sup>
Disulfoton <sup>2</sup>	no	298-04-4	500
Dithiazanine Iodide	no	514-73-8	500/10,000 <sup>3</sup>
Dithiobiuret	no	541-53-7	100/10,000 <sup>3</sup>
Emetine, Dihydrochloride	no	316-42-7	1/10,000 <sup>3</sup>
Endosulfan	no	115-29-7	10/10,000 <sup>3</sup>
Endothion	no	2778-04-3	500/10,000 <sup>3</sup>
Endrin	no	72-20-8	500/10,000 <sup>3</sup>
Epichlorohydrin	yes	106-89-8	1,000
EPN	no	2104-64-5	100/10,000 <sup>3</sup>
Ergocalciferol	no	50-14-6	1,000/10,000 <sup>3</sup>
Ergotamine Tartrate	no	379-79-3	500/10,000 <sup>3</sup>
Ethylene diamine	yes	107-15-3	10,000
Ethylene Fluorohydrin	no	371-62-0	10
Ethyleneimine	yes	151-56-4	500
Ethylene Oxide	yes	75-21-8	1,000
Fenamiphos	no	22224-92-6	10/10,000 <sup>3</sup>
Fluometil	no	4301-50-2	100/10,000 <sup>3</sup>
Fluorine	yes	7782-41-4	500
Fluoroacetamide	no	640-19-7	100/10,000 <sup>3</sup>
Fluoroacetic Acid	no	144-49-0	10/10,000 <sup>3</sup>
Fluoroacetyl Chloride	no	359-06-8	10
Fluorouracil	no	51-21-8	500/10,000 <sup>3</sup>
Formaldehyde <sup>5</sup>	yes	50-00-0	500
Formetanate Hydrochloride	no	23422-53-9	500/10,000 <sup>3</sup>
Formparanate	no	17702-57-7	100/10,000 <sup>3</sup>
Fuberidazole	no	3878-19-1	100/10,000 <sup>3</sup>
Furan	yes	110-00-9	500
Gallium Trichloride	no	13450-90-3	500/10,000 <sup>3</sup>
Hydrazine	yes	302-01-2	1,000
Hydrocyanic Acid	yes	74-90-8	100
Hydrogen Chloride (gas only)	yes	7647-01-0	500
Hydrogen Fluoride	yes	7664-39-3	100
Hydrogen Selenide	yes	7783-07-5	10
Hydrogen Sulfide	yes	7783-06-4	500
Hydroquinone <sup>6</sup>	no	123-31-9	500/10,000 <sup>3</sup>
Iron, Pentacarbonyl-	yes	13463-40-6	100
Isobenzan	no	297-78-9	100/10,000 <sup>3</sup>
Isobutyronitrile	yes	78-82-0	1,000

# California Accidental Release Prevention Program (CalARP)

## VIII. Federal Regulated Substances-Table 3

Source: Final CalARP Regulations 11-28-04; page 64

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 3. State Regulated Substances List and Threshold Quantities for Accidental Release Prevention (Continued)**

Chemical Name	Also on Table 1 <sup>1</sup>	CAS Number	State Threshold Quantity (lbs)
Isocyanic Acid, 3,4-Dichlorophenyl Ester	no	102-36-3	500/10,000 <sup>3</sup>
Isodrin	no	465-73-6	100/10,000 <sup>3</sup>
Isophorone Diisocyanate	no	4098-71-9	100
Isopropyl Chloroformate	yes	108-23-6	1,000
Leptophos	no	21609-90-5	500/10,000 <sup>3</sup>
Lewisite <sup>2</sup>	no	541-25-3	10
Lindane	no	58-89-9	1,000/10,000 <sup>3</sup>
Lithium Hydride <sup>4</sup>	no	7580-67-8	100
Malononitrile	no	109-77-3	500/10,000 <sup>3</sup>
Manganese, Tricarbonyl Methylcyclopentadienyl <sup>2</sup>	no	12108-13-3	100
Mechlorethamine <sup>2</sup>	no	51-75-2	10
Mercuric Acetate	no	1600-27-7	500/10,000 <sup>3</sup>
Mercuric Chloride	no	7487-94-7	500/10,000 <sup>3</sup>
Mercuric Oxide	no	21908-53-2	500/10,000 <sup>3</sup>
Methacrylonitrile	yes	126-98-7	500
Methacryloyl Chloride	no	920-46-7	100
Methacryloyloxyethyl Isocyanate	no	30674-80-7	100
Methamidophos	no	10265-92-6	100/10,000 <sup>3</sup>
Methanesulfonyl Fluoride	no	558-25-8	1,000
Methidathion	no	950-37-8	500/10,000 <sup>3</sup>
Methiocarb	no	2032-65-7	500/10,000 <sup>3</sup>
Methomyl	no	16752-77-5	500/10,000 <sup>3</sup>
Methoxyethylmercuric Acetate	no	151-38-2	500/10,000 <sup>3</sup>
Methyl Bromide	no	74-83-9	1,000
Methyl 2-Chloroacrylate	no	80-63-7	500
Methyl Chloroformate	yes	79-22-1	500
Methyl Hydrazine	yes	60-34-4	500
Methyl Isocyanate	yes	624-83-9	500
Methyl Isothiocyanate <sup>4</sup>	no	556-61-6	500
Methyl Mercaptan	yes	74-93-1	500
Methylmercuric Dicyanamide	no	502-39-6	500/10,000 <sup>3</sup>
Methyl Phosphonic Dichloride <sup>4</sup>	no	676-97-1	100
Methyl Thiocyanate	yes	556-64-9	10,000
Methyltrichlorosilane	yes	75-79-6	500
Methyl Vinyl Ketone	no	78-94-4	10
Metolcarb	no	1129-41-5	100/10,000 <sup>3</sup>
Mexacarbate	no	315-18-4	500/10,000 <sup>3</sup>
Mitomycin C	no	50-07-7	500/10,000 <sup>3</sup>
Monocrotophos	no	6923-22-4	10/10,000 <sup>3</sup>
Muscimol	no	2763-96-4	500/10,000 <sup>3</sup>
Mustard Gas <sup>2</sup>	no	505-60-2	500
Nickel Carbonyl	yes	13463-39-3	1

## California Accidental Release Prevention Program (CalARP)

### VIII. Federal Regulated Substances-Table 3

Source: Final CalARP Regulations 11-28-04; page 65

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPPregs/\\$file/CalARPPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPPregs/$file/CalARPPregs.pdf)

**Table 3. State Regulated Substances List and Threshold Quantities  
for Accidental Release Prevention  
(Continued)**

Chemical Name	Also on Table 1 <sup>1</sup>	CAS Number	State Threshold Quantity (lbs)
Nicotine Sulfate	no	65-30-5	100/10,000 <sup>3</sup>
Nitric Acid	yes	7697-37-2	1,000
Nitric Oxide	yes	10102-43-9	100
Nitrobenzene <sup>2</sup>	no	98-95-3	10,000
Nitrogen Dioxide	no	10102-44-0	100
Norbormide	no	991-42-4	100/10,000 <sup>3</sup>
Organorhodium Complex (PMN-82-147)	no	MIXTURE	10/10,000 <sup>3</sup>
Ouabain	no	630-60-4	100/10,000 <sup>3</sup>
Oxamyl	no	23135-22-0	100/10,000 <sup>3</sup>
Ozone	no	10028-15-6	100
Paraquat Dichloride	no	1910-42-5	10/10,000 <sup>3</sup>
Paraquat Methosulfate	no	2074-50-2	10/10,000 <sup>3</sup>
Parathion-Methyl	no	298-00-0	100/10,000 <sup>3</sup>
Paris Green	no	12002-03-8	500/10,000 <sup>3</sup>
Pentaborane	no	19624-22-7	500
Pentadecylamine	no	2570-26-5	100/10,000 <sup>3</sup>
Peracetic Acid	yes	79-21-0	500
Perchloromethylmercaptan	yes	594-42-3	500
Phenol	no	108-95-2	500/10,000 <sup>3</sup>
Phenol, 2,2'-Thiobis(4-Chloro-6-Methyl)-	no	4418-66-0	100/10,000 <sup>3</sup>
Phenol, 3-(1-Methylethyl)-, Methylcarbamate	no	64-00-6	500/10,000 <sup>3</sup>
Phenoxarsine, 10,10'-Oxydi-	no	58-36-6	500/10,000 <sup>3</sup>
Phenyl Dichloroarsine <sup>2</sup>	no	696-28-6	500
Phenylhydrazine Hydrochloride	no	59-88-1	1,000/10,000 <sup>3</sup>
Phenylmercury Acetate	no	62-38-4	500/10,000 <sup>3</sup>
Phenylsilatrane	no	2097-19-0	100/10,000 <sup>3</sup>
Phenylthiourea	no	103-85-5	100/10,000 <sup>3</sup>
Phorate <sup>2</sup>	no	298-02-2	10
Phosacetim	no	4104-14-7	100/10,000 <sup>3</sup>
Phosfolan	no	947-02-4	100/10,000 <sup>3</sup>
Phosgene	yes	75-44-5	10
Phosmet	no	732-11-6	10/10,000 <sup>3</sup>
Phosphine	yes	7803-51-2	500
Phosphonothioic Acid, Methyl-, S-(2-(Bis(1-Methylethyl)Amino)Ethyl) O-Ethyl Ester. <sup>2</sup>	no	50782-69-9	100
Phosphorus <sup>4</sup>	no	7723-14-0	100
Phosphorus Oxychloride	yes	10025-87-3	500
Phosphorus Pentachloride <sup>4</sup>	no	10026-13-8	500
Phosphorus Trichloride	yes	7719-12-2	1,000
Physostigmine	no	57-47-6	100/10,000 <sup>3</sup>
Physostigmine, Salicylate (1:1)	no	57-64-7	100/10,000 <sup>3</sup>

# California Accidental Release Prevention Program (CalARP)

## VIII. Federal Regulated Substances-Table 3

Source: Final CalARP Regulations 11-28-04; page 66

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPreps/\\$file/CalARPreps.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPreps/$file/CalARPreps.pdf)

**Table 3. State Regulated Substances List and Threshold Quantities  
for Accidental Release Prevention  
(Continued)**

Chemical Name	Also on Table 1 <sup>1</sup>	CAS Number	State Threshold Quantity (lbs)
Picrotoxin	no	124-87-8	500/10,000 <sup>3</sup>
Piperidine	yes	110-89-4	1,000
Potassium Arsenite	no	10124-50-2	500/10,000 <sup>3</sup>
Potassium Cyanide <sup>4</sup>	no	151-50-8	100
Potassium Silver Cyanide <sup>4</sup>	no	506-61-6	500
Promecarb	no	2631-37-0	500/10,000 <sup>3</sup>
Propargyl Bromide	no	106-96-7	10
Propiolactone, Beta- <sup>2</sup>	no	57-57-8	500
Propionitrile	yes	107-12-0	500
Propiophenone, 4-Amino-	no	70-69-9	100/10,000 <sup>3</sup>
Propyl Chloroformate	yes	109-61-5	500
Propylene Oxide	yes	75-56-9	10,000
Propyleneimine	yes	75-55-8	10,000
Prothoate	no	2275-18-5	100/10,000 <sup>3</sup>
Pyrene	no	129-00-0	1,000/10,000 <sup>3</sup>
Pyridine, 4-Amino-	no	504-24-5	500/10,000 <sup>3</sup>
Pyridine, 4-Nitro-, 1-Oxide	no	1124-33-0	500/10,000 <sup>3</sup>
Pyriminil	no	53558-25-1	100/10,000 <sup>3</sup>
Salcomine	no	14167-18-1	500/10,000 <sup>3</sup>
Sarin <sup>2</sup>	no	107-44-8	10
Selenious Acid	no	7783-00-8	1,000/10,000 <sup>3</sup>
Semicarbazide Hydrochloride	no	563-41-7	1,000/10,000 <sup>3</sup>
Sodium Arsenate	no	7631-89-2	1,000/10,000 <sup>3</sup>
Sodium Arsenite	no	7784-46-5	500/10,000 <sup>3</sup>
Sodium Azide (Na (N3)) <sup>4</sup>	no	26628-22-8	500
Sodium Cacodylate	no	124-65-2	100/10,000 <sup>3</sup>
Sodium Cyanide (Na (CN)) <sup>4</sup>	no	143-33-9	100
Sodium Fluoroacetate	no	62-74-8	10/10,000 <sup>3</sup>
Sodium Selenate	no	13410-01-0	100/10,000 <sup>3</sup>
Sodium Selenite	no	10102-18-8	100/10,000 <sup>3</sup>
Sodium Tellurite	no	10102-20-2	500/10,000 <sup>3</sup>
Stannane, Acetoxytriphenyl-	no	900-95-8	500/10,000 <sup>3</sup>
Strychnine	no	57-24-9	100/10,000 <sup>3</sup>
Strychnine Sulfate	no	60-41-3	100/10,000 <sup>3</sup>
Sulfur Dioxide	yes	7446-09-5	500
Sulfuric Acid <sup>7</sup>	no	7664-93-9	1,000
Sulfur Tetrafluoride	yes	7783-60-0	100
Sulfur Trioxide <sup>4</sup>	yes	7446-11-9	100
Tabun <sup>2</sup>	no	77-81-6	10
Tellurium Hexafluoride	no	7783-80-4	100

## California Accidental Release Prevention Program (CalARP)

### VIII. Federal Regulated Substances-Table 3

Source: Final CalARP Regulations 11-28-04; page 67

[http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/\\$file/CalARPregs.pdf](http://www.oes.ca.gov/Operational/OESHome.nsf/PDF/CalARPregs/$file/CalARPregs.pdf)

**Table 3. State Regulated Substances List and Threshold Quantities  
for Accidental Release Prevention  
(Continued)**

Chemical Name	Also on Table 1 <sup>1</sup>	CAS Number	State Threshold Quantity (lbs)
Tetramethyllead	yes	75-74-1	100
Tetranitromethane	yes	509-14-8	500
Thallium Sulfate	no	10031-59-1	100/10,000 <sup>3</sup>
Thallos Carbonate	no	6533-73-9	100/10,000 <sup>3</sup>
Thallos Chloride	no	7791-12-0	100/10,000 <sup>3</sup>
Thallos Malonate	no	2757-18-8	100/10,000 <sup>3</sup>
Thallos Sulfate	no	7446-18-6	100/10,000 <sup>3</sup>
Thiocarbazine	no	2231-57-4	1,000/10,000 <sup>3</sup>
Thiofanox	no	39196-18-4	100/10,000 <sup>3</sup>
Thiosemicarbazide	no	79-19-6	100/10,000 <sup>3</sup>
Thiourea, (2-Chlorophenyl)-	no	5344-82-1	100/10,000 <sup>3</sup>
Thiourea, (2-Methylphenyl)-	no	614-78-8	500/10,000 <sup>3</sup>
Titanium Tetrachloride	yes	7550-45-0	100
Toluene-2,4-Diisocyanate <sup>8</sup>	yes	584-84-9	500
Toluene-2,6-Diisocyanate <sup>8</sup>	yes	91-08-7	100
Triamphos	no	1031-47-6	500/10,000 <sup>3</sup>
Trichloro(Chloromethyl)Silane	no	1558-25-4	100
Trichloro(Dichlorophenyl)Silane	no	27137-85-5	500
Triethoxysilane	no	998-30-1	500
Trimethylchlorosilane	yes	75-77-4	1,000
Trimethylolpropane Phosphite	no	824-11-3	100/10,000 <sup>3</sup>
Trimethyltin Chloride	no	1066-45-1	500/10,000 <sup>3</sup>
Triphenyltin Chloride	no	639-58-7	500/10,000 <sup>3</sup>
Tris(2-Chloroethyl)Amine <sup>2</sup>	no	555-77-1	100
Valinomycin	no	2001-95-8	1,000/10,000 <sup>3</sup>
Vanadium Pentoxide	no	1314-62-1	100/10,000 <sup>3</sup>
Vinyl Acetate Monomer	yes	108-05-4	1,000
Warfarin	no	81-81-2	500/10,000 <sup>3</sup>
Warfarin Sodium	no	129-06-6	100/10,000 <sup>3</sup>
Xylylene Dichloride	no	28347-13-9	100/10,000 <sup>3</sup>
Zinc, Dichloro(4,4-Dimethyl-5(((Methylamino) Carbonyl)Oxy)Imino) Pentanenitrile)-, (T-4)-.	no	58270-08-9	100/10,000 <sup>3</sup>
Zinc Phosphide <sup>4</sup>	no	1314-84-7	500

1 This column identifies substances which may appear on Table 1. Table 1 may have concentration limitations.

2 Substances that failed the evaluation pursuant to Section 25532(g)(2) of the HSC but remain listed pursuant to potential health impacts. The exemption in Section 2770.2(b)(1)(B) regarding portions of a process where these regulated substances are handled at partial pressures below 10 mm Hg does not apply to these substances.

3 These extremely hazardous substances are solids. The lesser quantity listed applies only if in powdered form and with a particle size of less than 100 microns; or if handled in solution or in molten form; or the substance has an NFPA rating for reactivity of 2, 3, or 4. Otherwise, a 10,000 pound threshold applies. The exemption in Section 2770.2(b)(1)(B) regarding portions of a process where these regulated substances are handled at partial pressures below 10 mm Hg does not apply to these substances.