

Barclays Official California Code of Regulations Currentness  
 Title 19. Public Safety  
 Division 2. California Governor's Office of Emergency Services  
 Chapter 4.5. California Accidental Release Prevention (CalARP) Program Detailed Analysis  
 Article 8. Regulated Substances for Accidental Release Prevention.

19 CCR § 2770.5

§ 2770.5. List of Substances.

Regulated toxic and flammable substances under Section 112(r) of the federal CAA are the substances listed in Tables 1 and 2. Table 3 lists those regulated substances pursuant to Section 25532(i)(2) of HSC. Threshold quantities for listed toxic and flammable substances are specified in the tables.

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

| <i>Chemical Name</i>  | <i>Also on Table 3<sup>f</sup></i> | <i>CAS Number</i> | <i>Threshold quantity (lbs)</i> | <i>Basis for listing</i> |
|---|------------------------------------|-------------------|---------------------------------|--------------------------|
| 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[metane]]]-, T-4- | yes                                | 353-42-4          | 15,000                          | b                        |

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|   |     |            |        |     |
|---|-----|------------|--------|-----|
| 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   |
| Ethyleneoxide [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) |     |            |        |     |

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|   |     |            |        |     |
|---|-----|------------|--------|-----|
| [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<br>(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<br>acid,<br>1-methylethyl ester]                    | yes | 108-23-6   | 15,000 | b   |
| Methacrylonitrile [2-Propenenitrile, 2-<br>methyl-]   | yes | 126-98-7   | 10,000 | b   |
| Methyl chloride [Methane, chloro-]  | no  | 74-87-3    | 10,000 | a   |
| Methyl chloroformate [Carbonochloridic<br>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<br>ester]   | yes | 556-64-9   | 20,000 | b   |
| Methyltrichlorosilane [Silane,<br>trichloromethyl-]   | yes | 75-79-0    | 5,000  | b   |
| Nickel carbonyl   | yes | 13463-39-3 | 1,000  | b   |
| Nitric acid (cone 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<br>acid, mixture with<br>sulfur trioxide] <sup>1</sup> | no  | 8014-95-7  | 10,000 | e   |
| Peracetic acid [Ethaneperoxoic acid]  | yes | 79-21-0    | 10,000 | b   |
| Perchloromethylmercaptan<br>[Methanesulfenyl chloride,<br>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   |

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|  |     |            |        |     |
|--|-----|------------|--------|-----|
| 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 10mm 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.

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

| <i>Chemical Name</i>                             | <i>CAS Number</i> | <i>Threshold quantity (lbs)</i> | <i>Basis for listing</i> |
|--|-------------------|---------------------------------|--------------------------|
| 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 |
| Ethyl acetylene [1-Butyne]                   | 107-00-6  | 10,000 | f |
| Ethylamine [Ethanamine]                      | 75-04-7   | 10,000 | f |
| Ethyl chloride [Ethane, chloro-]             | 75-00-3   | 10,000 | f |
| Ethylene [Ethene]                            | 74-85-1   | 10,000 | f |
| Ethyl ether [Ethane, 1,1'-oxybis-]           | 60-29-7   | 10,000 | g |
| Ethyl mercaptan [Ethanethiol]                | 75-08-1   | 10,000 | g |
| Ethyl nitrite [Nitrous acid, ethyl ester]    | 109-95-5  | 10,000 | f |
| Hydrogen                                     | 1333-74-0 | 10,000 | f |
| Isobutane [Propane, 2-methyl]                | 75-28-5   | 10,000 | f |
| Isopentane [Butane, 2-methyl-]               | 78-78-4   | 10,000 | g |
| Isoprene [1,3-Butadiene, 2-methyl-]          | 78-79-5   | 10,000 | g |
| Isopropylamine [2-Propanamine]               | 75-31-0   | 10,000 | g |
| Isopropyl chloride [Propane, 2-chloro-]      | 75-29-6   | 10,000 | g |
| Methane                                      | 74-82-8   | 10,000 | f |
| Methylamine [Methanamine]                    | 74-89-5   | 10,000 | f |
| 3-Methyl-1-butene                            | 563-45-1  | 10,000 | f |
| 2-Methyl-1-butene                            | 563-46-2  | 10,000 | g |
| Methyl ether [Methane, oxybis-]              | 115-10-6  | 10,000 | f |
| Methyl formate [Formic acid, methyl ester]   | 107-31-3  | 10,000 | g |
| 2-Methylpropene [1-Propene, 2-methyl-]       | 115-11-7  | 10,000 | f |

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

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

| <i>Chemical Name</i>             | <i>Also on<br/>Table 1<sup>1</sup></i> | <i>CAS Number</i> | <i>State<br/>Threshold<br/>quantity (lbs)</i> |
|----------------------------------|--|-------------------|---|
| 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   |
| Aluminum 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>                       |



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|   |     |            |                           |
|---|-----|------------|---------------------------|
| 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>   |
| Benzotrichloride <sup>2</sup>                                       | no  | 98-07-7    | 100                       |
| Bicyclo[2.2.1] Heptane-2-Carbonitrile, 5-Chloro- 6-(((Methylamino   | no  | 15271-41-7 | 500/10,000 <sup>3</sup>   |
| Carbonyl)Oxy)Imino)-, (1s-(1-alpha, 2-beta, 4-alpha, 5-alpha, 6E))- |     |            |                           |
| 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>   |
| Campechlor  | no  | 8001-35-2  | 500/10,000 <sup>3</sup>   |
| Cantharidin   | no  | 56-25-7    | 100/10,000 <sup>3</sup>   |
| 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                       |
| Chlormequat 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-Ethanediy)bis (Nitrilomethylidyne))                        | no  | 62207-76-5 | 100/10,000 <sup>3</sup>   |
| Bis(6-Fluorophenolato))(2-)-N,N',O,O')-.                                       |     |            |                           |
| 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> |
| Dinitrocresol                 | 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                |
| 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>   |
| Ethylenediamine              | 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>    |
| Fluenetil                    | 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                     |
| 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<br>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                       |
| 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  | 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>   |
| 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                       |
| 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> |



|  |     |            |                           |
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| 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 (N <sub>3</sub> )) <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                       |
| 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>   |

|   |     |            |                           |
|---|-----|------------|---------------------------|
| Thiocarbazide   | 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                       |
| Triamiphos  | 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>   |

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|-----------------------------|----|-----------|-----|
| 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.

4 These extremely hazardous substances are reactive solids. 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.

5 Appropriate synonyms or mixtures of extremely hazardous substances with the same CAS number are also regulated, e.g., formalin. The listing of ammonia includes anhydrous and aqueous forms of ammonia pursuant to Section 25532(g)(2).

6 Hydroquinone is exempt in crystalline form.

7 Sulfuric acid fails the evaluation pursuant to Section 25532(g)(2) of the HSC but remains listed as a Regulated Substance only under the following conditions:

a. If concentrated with greater than 100 pounds of sulfur trioxide or the acid meets the definition of oleum. (The Table 3 threshold for sulfur trioxide is 100 pounds.) (The Table 1 threshold for oleum is 10,000 pounds.)

b. If in a container with flammable hydrocarbons (flash point < 73°F).

8 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.

Note: Authority cited: Sections 25531 and 25534.05, Health and Safety Code. Reference: Sections 25532(i)(2) and 25543.3, Health and Safety Code; and Section 68.130, Part 68, Title 40, Code of Federal Regulations.

#### HISTORY

1. New section and Tables 1-3 filed 7-10-97 as an emergency; operative 7-10-97 (Register 97, No. 28). A Certificate of Compliance must be transmitted to OAL by 11-7-97 or emergency language will be repealed by operation of law on the following day.

2. New section and Tables 1-3 refiled 10-31-97 as an emergency; operative 11-7-97 (Register 97, No. 44). A Certificate of Compliance must be transmitted to OAL by 3-9-98 or emergency language will be repealed by operation of law on the following day.
3. Editorial correction of Tables 1 and 3 (Register 98, No. 11).
4. New section and Tables 1-3 refiled 3-9-98 as an emergency; operative 3-9-98 (Register 98, No. 11). A Certificate of Compliance must be transmitted to OAL by 7-7-98 or emergency language will be repealed by operation of law on the following day.
5. New section and Tables 1-3 refiled 7-7-98 as an emergency; operative 7-7-98 (Register 98, No. 28). A Certificate of Compliance must be transmitted to OAL by 11-4-98 or emergency language will be repealed by operation of law on the following day.
6. Certificate of Compliance as to 7-7-98 order, including repealer and new section and repealer and new Tables 1-3, transmitted to OAL 10-7-98 and filed 11-16-98 (Register 98, No. 47).
7. Amendment of Table 2 adding new footnote filed 10-10-2002; operative 10-10-2002. Submitted to OAL for printing only pursuant to Health and Safety Code section 25533 (Register 2002, No. 41).
8. Amendment of Table 3 filed 10-8-2014; operative 1-1-2015 (Register 2014, No. 41).
9. Amendment of section and Note filed 8-3-2017; operative 10-1-2017 (Register 2017, No. 31).

This database is current through 4/30/21 Register 2021, No. 18

19 CCR § 2770.5, 19 CA ADC § 2770.5