

Extremely Hazardous Substance List

CAS No.	Chemical name	Notes	Threshold planning quantity (pounds)
75-86-5	Acetone Cyanohydrin		1,000
1752-30-3	Acetone Thiosemicarbazide	h	1,000/10,000
107-02-8	Acrolein		500
79-06-1	Acrylamide	f,h	1,000/10,000
107-13-1	Acrylonitrile	f	10,000
814-68-6	Acrylyl Chloride	d	100
111-69-3	Adiponitrile	f	1,000
116-06-3	Aldicarb	b, h	100/10,000
309-00-2	Aldrin	h	500/10,000
107-18-6	Allyl Alcohol		1,000
107-11-9	Allylamine		500
20859-73-8	Aluminum Phosphide	a	500
54-62-6	Aminopterin	h	500/10,000
78-53-5	Amiton		500
3734-97-2	Amiton Oxalate	h	100/10,000
7664-41-7	Ammonia	f	500
300-62-9	Amphetamine		1,000
62-53-3	Aniline	f	1,000
88-05-1	Aniline, 2,4,6-Trimethyl-		500
7783-70-2	Antimony Pentafluoride		500
1397-94-0	Antimycin A	b, h	1,000/10,000
86-88-4	ANTU	h	500/10,000
1303-28-2	Arsenic Pentoxide	h	100/10,000
1327-53-3	Arsenous Oxide	d, h	100/10,000
7784-34-1	Arsenous Trichloride		500
7784-42-1	Arsine		100
2642-71-9	Azinphos-Ethyl	h	100/10,000
86-50-0	Azinphos-Methyl	h	10/10,000
98-87-3	Benzal Chloride		500
98-16-8	Benzenamine, 3-(Trifluoromethyl)-		500
100-14-1	Benzene, 1-(Chloromethyl)-4-Nitro-	h	500/10,000
98-05-5	Benzeneearsonic Acid	h	10/10,000
3615-21-2	Benzimidazole, 4,5-Dichloro-2-(Trifluoromethyl)-	c, h	500/10,000
98-07-7	Benzotrichloride		100
100-44-7	Benzyl Chloride		500
140-29-4	Benzyl Cyanide	d	500
15271-41-7	Bicyclo[2.2.1]Heptane-2-Carbonitrile, 5-Chloro-6-(((Methylamino)Carbonyl)Oxy)Imino-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-	h	500/10,000
534-07-6	Bis(Chloromethyl) Ketone	h	10/10,000
4044-65-9	Bitoscanate	h	500/10,000
10294-34-5	Boron Trichloride		500

2095581	Boron Trifluoride		500
353-42-4	Boron Trifluoride Compound With Methyl Ether (1:1)		1,000
28772-56-7	Bromadiolone	h	100/10,000
7726-95-6	Bromine	f	500
1306-19-0	Cadmium Oxide	h	100/10,000
2223-93-0	Cadmium Stearate	b, h	1,000/10,000
7778-44-1	Calcium Arsenate	h	500/10,000
8001-35-2	Camphchlor	h	500/10,000
56-25-7	Cantharidin	h	100/10,000
51-83-2	Carbachol Chloride	h	500/10,000
26419-73-8	Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-	h	100/10,000
1563-66-2	Carbofuran	h	10/10,000
75-15-0	Carbon Disulfide	f	10,000
786-19-6	Carbophenothion		500
57-74-9	Chlordane		1,000
470-90-6	Chlorfenvinfos		500
7782-50-5	Chlorine		100
24934-91-6	Chlormephos		500
999-81-5	Chlormequat Chloride	d, h	100/10,000
79-11-8	Chloroacetic Acid	h	100/10,000
107-07-3	Chloroethanol		500
627-11-2	Chloroethyl Chloroformate		1,000
67-66-3	Chloroform	f	10,000
542-88-1	Chloromethyl Ether	d	100
107-30-2	Chloromethyl Methyl Ether	b	100
3691-35-8	Chlorophacinone	h	100/10,000
1982-47-4	Chloroxuron	h	500/10,000
21923-23-9	Chlorthiophos	d	500
10025-73-7	Chromic Chloride	h	1/10,000
62207-76-5	Cobalt, ((2,2'-(1,2-Ethanediybis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N',O,O')-	h	100/10,000
10210-68-1	Cobalt Carbonyl	d, h	10/10,000
64-86-8	Colchicine	d, h	10/10,000
56-72-4	Coumaphos	h	100/10,000
5836-29-3	Coumatetralyl	h	500/10,000
95-48-7	Cresol, o-	h	1,000/10,000
535-89-7	Crimidine	h	100/10,000
4170-30-3	Crotonaldehyde		1,000
123-73-9	Crotonaldehyde, (E)-		1,000
506-68-3	Cyanogen Bromide	h	500/10,000
506-78-5	Cyanogen Iodide	h	1,000/10,000
2636-26-2	Cyanophos		1,000
675-14-9	Cyanuric Fluoride		100
66-81-9	Cycloheximide	h	100/10,000
108-91-8	Cyclohexylamine	f	10,000

17702-41-9	Decaborane(14)	h	500/10,000
8065-48-3	Demeton		500
919-86-8	Demeton-S-Methyl		500
10311-84-9	Dialifor	h	100/10,000
19287-45-7	Diborane		100
111-44-4	Dichloroethyl ether		10,000
149-74-6	Dichloromethylphenylsilane		1,000
62-73-7	Dichlorvos		1,000
141-66-2	Dicrotophos		100
1464-53-5	Diepoxybutane		500
814-49-3	Diethyl Chlorophosphate	d	500
71-63-6	Digitoxin	b,h	100/10,000
123639	Diglycidyl Ether		1,000
20830-75-5	Digoxin	d, h	10/10,000
115-26-4	Dimefox		500
60-51-5	Dimethoate	h	500/10,000
2524-03-0	Dimethyl Phosphorochloridothioate		500
77-78-1	Dimethyl sulfate		500
75-78-5	Dimethyldichlorosilane	d	500
57-14-7	Dimethylhydrazine		1,000
99-98-9	Dimethyl-p-Phenylenediamine	h	10/10,000
644-64-4	Dimetilan	h	500/10,000
534-52-1	Dinitrocresol	h	10/10,000
88-85-7	Dinoseb	h	100/10,000
1420-07-1	Dinoterb	h	500/10,000
78-34-2	Dioxathion		500
82-66-6	Diphacinone	h	10/10,000
152-16-9	Diphosphoramidate, Octamethyl-		100
298-04-4	Disulfoton		500
514-73-8	Dithiazanine Iodide	h	500/10,000
541-53-7	Dithiobiuret	h	100/10,000
316-42-7	Emetine, Dihydrochloride	d, h	1/10,000
115-29-7	Endosulfan	h	10/10,000
320777	Endothion	h	500/10,000
72-20-8	Endrin	h	500/10,000
106-89-8	Epichlorohydrin	f	1,000
2104-64-5	EPN	h	100/10,000
50-14-6	Ergocalciferol	b, h	1,000/10,000
379-79-3	Ergotamine Tartrate	h	500/10,000
1622-32-8	Ethanesulfonyl Chloride, 2-Chloro-		500
10140-87-1	Ethanol, 1,2-Dichloro-, Acetate		1,000
563-12-2	Ethion		1,000
13194-48-4	Ethoprophos		1,000
538-07-8	Ethylbis(2-Chloroethyl)Amine	d	500
371-62-0	Ethylene Fluorohydrin	b, d	10
75-21-8	Ethylene Oxide	f	1,000
107-15-3	Ethylenediamine		10,000
151-56-4	Ethyleneimine		500

542-90-5	Ethylthiocyanate		10,000
22224-92-6	Fenamiphos	h	10/10,000
115-90-2	Fensulfothion	d	500
4301-50-2	Fluenetil	h	100/10,000
7782-41-4	Fluorine	e	500
640-19-7	Fluoroacetamide	h	100/10,000
144-49-0	Fluoroacetic Acid	h	10/10,000
359-06-8	Fluoroacetyl Chloride	b	10
51-21-8	Fluorouracil	h	500/10,000
944-22-9	Fonofos		500
50-00-0	Formaldehyde	f	500
107-16-4	Formaldehyde Cyanohydrin	d	1,000
23422-53-9	Formetanate Hydrochloride	d, h	500/10,000
2540-82-1	Formothion		100
17702-57-7	Formparanate	h	100/10,000
21548-32-3	Fosthietan		500
3878-19-1	Fuberidazole	h	100/10,000
110-00-9	Furan		500
13450-90-3	Gallium Trichloride	h	500/10,000
77-47-4	Hexachlorocyclopentadiene	d	100
1072296	Hexamethylenediamine, N,N'-Dibutyl-		500
302-01-2	Hydrazine		1,000
74-90-8	Hydrocyanic Acid		100
7647-01-0	Hydrogen Chloride (gas only)	f	500
7664-39-3	Hydrogen Fluoride		100
7722-84-1	Hydrogen Peroxide (Conc >52%)	f	1,000
2148909	Hydrogen Selenide		10
2148878	Hydrogen Sulfide	f	500
123-31-9	Hydroquinone	f, h	500/10,000
13463-40-6	Iron, Pentacarbonyl-		100
297-78-9	Isobenzan	h	100/10,000
78-82-0	Isobutyronitrile	d	1,000
102-36-3	Isocyanic Acid, 3,4-Dichlorophenyl Ester	h	500/10,000
465-73-6	Isodrin	h	100/10,000
55-91-4	Isofluorophate	b	100
4098-71-9	Isophorone Diisocyanate	g	500
108-23-6	Isopropyl Chloroformate		1,000
119-38-0	Isopropylmethyl-pyrazolyl Dimethylcarbamate		500
78-97-7	Lactonitrile		1,000
21609-90-5	Leptophos	h	500/10,000
541-25-3	Lewisite	b, d	10
58-89-9	Lindane	h	1,000/10,000
7580-67-8	Lithium Hydride	a	100
109-77-3	Malononitrile	h	500/10,000
12108-13-3	Manganese, Tricarbonyl Methylcyclopentadienyl	d	100
51-75-2	Mechlorethamine	b	10
950-10-7	Mephosfolan		500
1600-27-7	Mercuric Acetate	h	500/10,000

7487-94-7	Mercuric Chloride	h	500/10,000
21908-53-2	Mercuric Oxide	h	500/10,000
10476-95-6	Methacrolein Diacetate		1,000
760-93-0	Methacrylic Anhydride		500
126-98-7	Methacrylonitrile	d	500
920-46-7	Methacryloyl Chloride		100
30674-80-7	Methacryloyloxyethyl Isocyanate	d	100
10265-92-6	Methamidophos	h	100/10,000
558-25-8	Methanesulfonyl Fluoride		1,000
950-37-8	Methidathion	h	500/10,000
2032-65-7	Methiocarb	h	500/10,000
16752-77-5	Methomyl	d, h	500/10,000
151-38-2	Methoxyethylmercuric Acetate	h	500/10,000
80-63-7	Methyl 2-Chloroacrylate		500
74-83-9	Methyl Bromide	f	1,000
79-22-1	Methyl Chloroformate	d	500
60-34-4	Methyl Hydrazine		500
624-83-9	Methyl Isocyanate		500
556-61-6	Methyl Isothiocyanate	a	500
74-93-1	Methyl Mercaptan	f	500
3735-23-7	Methyl Phenkapton		500
676-97-1	Methyl Phosphonic Dichloride	a	100
556-64-9	Methyl Thiocyanate		10,000
78-94-4	Methyl Vinyl Ketone		10
502-39-6	Methylmercuric Dicyanamide	h	500/10,000
75-79-6	Methyltrichlorosilane	d	500
1129-41-5	Metolcarb	h	100/10,000
7786-34-7	Mevinphos		500
315-18-4	Mexacarbate	d, h	500/10,000
50-07-7	Mitomycin C	h	500/10,000
6923-22-4	Monocrotophos	h	10/10,000
2763-96-4	Muscimol	h	500/10,000
505-60-2	Mustard Gas	d	500
13463-39-3	Nickel Carbonyl		1
54-11-5	Nicotine	b	100
65-30-5	Nicotine Sulfate	h	100/10,000
7697-37-2	Nitric Acid		1,000
10102-43-9	Nitric Oxide	b	100
98-95-3	Nitrobenzene	f	10,000
1122-60-7	Nitrocyclohexane		500
10102-44-0	Nitrogen Dioxide		100
62-75-9	Nitrosodimethylamine	d	1,000
991-42-4	Norbormide	h	100/10,000
	Organorhodium Complex (PMN-82-147)	h	10/10,000
630-60-4	Ouabain	b,h	100/10,000
23135-22-0	Oxamyl	h	100/10,000
78-71-7	Oxetane, 3,3-Bis(Chloromethyl)-		500
218239	Oxydisulfoton	d	500

10028-15-6	Ozone		100
1910-42-5	Paraquat Dichloride	h	10/10,000
2074-50-2	Paraquat Methosulfate	h	10/10,000
56-38-2	Parathion	b	100
298-00-0	Parathion-Methyl	b, h	100/10,000
12002-03-8	Paris Green	h	500/10,000
19624-22-7	Pentaborane		500
2570-26-5	Pentadecylamine	h	100/10,000
79-21-0	Peracetic Acid		500
594-42-3	Perchloromethylmercaptan		500
108-95-2	Phenol	h	500/10,000
4418-66-0	Phenol, 2,2'-Thiobis(4-Chloro-6-Methyl)-	h	100/10,000
64-00-6	Phenol, 3-(1-Methylethyl)-, Methylcarbamate	h	500/10,000
58-36-6	Phenoxarsine, 10,10'-Oxydi-	h	500/10,000
696-28-6	Phenyl Dichloroarsine	d	500
59-88-1	Phenylhydrazine Hydrochloride	h	1,000/10,000
62-38-4	Phenylmercury Acetate	h	500/10,000
2097-19-0	Phenylsilatrane	d, h	100/10,000
103-85-5	Phenylthiourea	h	100/10,000
298-02-2	Phorate		10
4104-14-7	Phosacetim	h	100/10,000
947-02-4	Phosfolan	h	100/10,000
75-44-5	Phosgene	f	10
13171-21-6	Phosphamidon		100
7803-51-2	Phosphine		500
2703-13-1	Phosphonothioic Acid, Methyl-, O-Ethyl O-(4-(Methylthio) Phenyl) Ester		500
50782-69-9	Phosphonothioic Acid, Methyl-, S-(2-(Bis(1Methylethyl)Amino)Ethyl) O-Ethyl Ester		100
2665-30-7	Phosphonothioic Acid, Methyl-, O-(4-Nitrophenyl) O-Phenyl Ester		500
3254-63-5	Phosphoric Acid, Dimethyl 4-(Methylthio)Phenyl Ester		500
2587-90-8	Phosphorothioic Acid, O,O-Dimethyl-S-(2-Methylthio) Ethyl Ester	b, c	500
7723-14-0	Phosphorus	a, d	100
10025-87-3	Phosphorus Oxychloride		500
10026-13-8	Phosphorus Pentachloride	a	500
2125683	Phosphorus Trichloride		1,000
57-47-6	Physostigmine	h	100/10,000
57-64-7	Physostigmine, Salicylate (1:1)	h	100/10,000
124-87-8	Picrotoxin	h	500/10,000
110-89-4	Piperidine		1,000
23505-41-1	Pirimifos-Ethyl		1,000
10124-50-2	Potassium Arsenite	h	500/10,000
151-50-8	Potassium Cyanide	a	100
506-61-6	Potassium Silver Cyanide	a	500
2631-37-0	Promecarb	d, h	500/10,000

106-96-7	Propargyl Bromide		10
57-57-8	Propiolactone, Beta-		500
107-12-0	Propionitrile		500
542-76-7	Propionitrile, 3-Chloro-		1,000
70-69-9	Propiophenone, 4-Amino-	c,h	100/10,000
109-61-5	Propyl Chloroformate		500
75-56-9	Propylene Oxide	f	10,000
75-55-8	Propyleneimine		10,000
2275-18-5	Prothoate	h	100/10,000
129-00-0	Pyrene	b,h	1,000/10,000
140-76-1	Pyridine, 2-Methyl-5-Vinyl-		500
504-24-5	Pyridine, 4-Amino-	d,h	500/10,000
1124-33-0	Pyridine, 4-Nitro-,l-Oxide	h	500/10,000
53558-25-1	Pyriminil	d,h	100/10,000
14167-18-1	Salcomine	h	500/10,000
107-44-8	Sarin	d	10
7783-00-8	Selenious Acid	h	1,000/10,000
7791-23-3	Selenium Oxychloride		500
563-41-7	Semicarbazide Hydrochloride	h	1,000/10,000
3037-72-7	Silane, (4-Aminobutyl)Diethoxymethyl-		1,000
7631-89-2	Sodium Arsenate	h	1,000/10,000
7784-46-5	Sodium Arsenite	h	500/10,000
26628-22-8	Sodium Azide (Na(N ₃))	a	500
124-65-2	Sodium Cacodylate	h	100/10,000
143-33-9	Sodium Cyanide (Na(CN))	a	100
62-74-8	Sodium Fluoroacetate	h	10/10,000
13410-01-0	Sodium Selenate	h	100/10,000
10102-18-8	Sodium Selenite	d,h	100/10,000
10102-20-2	Sodium Tellurite	h	500/10,000
900-95-8	Stannane, Acetoxytriphenyl-	c,h	500/10,000
57-24-9	Strychnine	b,h	100/10,000
60-41-3	Strychnine Sulfate	h	100/10,000
3689-24-5	Sulfotep		500
3569-57-1	Sulfoxide, 3-Chloropropyl Octyl		500
2025884	Sulfur Dioxide	f	500
7783-60-0	Sulfur Tetrafluoride		100
2025949	Sulfur Trioxide	a	100
7664-93-9	Sulfuric Acid		1,000
77-81-6	Tabun	b, d	10
7783-80-4	Tellurium Hexafluoride	e	100
107-49-3	TEPP		100
13071-79-9	Terbufos	d	100
78-00-2	Tetraethyllead	b	100
597-64-8	Tetraethyltin	b	100
75-74-1	Tetramethyllead	b, f	100
509-14-8	Tetranitromethane		500
10031-59-1	Thallium Sulfate	d, h	100/10,000
6533-73-9	Thallos Carbonate	b, d,h	100/10,000

7791-12-0	Thallos Chloride	b, d, h	100/10,000
2757-18-8	Thallos Malonate	b, d, h	100/10,000
7446-18-6	Thallos Sulfate	h	100/10,000
2231-57-4	Thiocarbazine	h	1,000/10,000
39196-18-4	Thiofanox	h	100/10,000
297-97-2	Thionazin		500
108-98-5	Thiophenol		500
79-19-6	Thiosemicarbazide	h	100/10,000
5344-82-1	Thiourea, (2-Chlorophenyl)-	h	100/10,000
614-78-8	Thiourea, (2-Methylphenyl)-	h	500/10,000
7550-45-0	Titanium Tetrachloride		100
584-84-9	Toluene 2,4-Diisocyanate		500
91-08-7	Toluene 2,6-Diisocyanate		100
110-57-6	Trans-1,4-Dichlorobutene		500
1031-47-6	Triamiphos	h	500/10,000
24017-47-8	Triazofos		500
76-02-8	Trichloroacetyl Chloride		500
115-21-9	Trichloroethylsilane	d	500
327-98-0	Trichloronate	e	500
98-13-5	Trichlorophenylsilane	d	500
1558-25-4	Trichloro(Chloromethyl)Silane		100
27137-85-5	Trichloro(Dichlorophenyl) Silane		500
998-30-1	Triethoxysilane		500
75-77-4	Trimethylchlorosilane		1,000
824-11-3	Trimethylolpropane Phosphite	d, h	100/10,000
1066-45-1	Trimethyltin Chloride	h	500/10,000
639-58-7	Triphenyltin Chloride	h	500/10,000
555-77-1	Tris(2-Chloroethyl)Amine	d	100
2001-95-8	Valinomycin	b, h	1,000/10,000
1314-62-1	Vanadium Pentoxide	h	100/10,000
108-05-4	Vinyl Acetate Monomer	f	1,000
81-81-2	Warfarin	h	500/10,000
129-06-6	Warfarin Sodium	d, h	100/10,000
28347-13-9	Xylylene Dichloride	h	100/10,000
58270-08-9	Zinc, Dichloro(4,4-Dimethyl-5(((Methylamino)Carbonyl) Oxy)Imino)Pentanenitrile)-, (T-4)-	h	100/10,000
1314-84-7	Zinc Phosphide	a	500

Notes:

- a. This material is a reactive solid. The TPQ does not default to 10,000 pounds for non-powder, non-molten, non-solution form.
- b. The calculated TPQ changed after technical review as described in a technical support document for the final rule, April 22, 1987.
- c. Chemicals added by final rule, April 22, 1987.
- d. Revised TPQ based on new or re-evaluated toxicity data, April 22, 1987.
- e. The TPQ was revised due to calculation error, April 22, 1987.
- f. Chemicals on the original list that do not meet toxicity criteria but because of their acute lethality, high production volume and

known risk are considered chemicals of concern (“Other chemicals”), November 17, 1986 and February 15, 1990.

g. The TPQ was recalculated (September 8, 2003) since it was mistakenly calculated in the April 22, 1987 final rule under the wrong assumption that this chemical is a reactive solid, when in fact it is a liquid. RQ for this chemical was adjusted on September 11, 2006

h. EHSs that are in solid form are subject to one of two different TPQs (TPQs may be listed as 500/10,000 pounds). To determine which TPQs you must use:

(1) Use the lower TPQ if the solid:

- Is in powdered form and has a particle size less than 100 microns;
- Is in solution;
- Is in molten form; or
- Meets the criteria for a National Fire Protection Association (NFPA) rating of 2, 3 or 4 for reactivity.

(2) If the solid does not meet one of the criteria in paragraph (a) of this section, then the TPQ is 10,000 pounds.

[Source: 40 CFR Part 355, current as of 6/8/2017](#)