

APPENDIX F

HAZARDOUS CHEMICALS LIST

The Environmental Protection Agency
Acutely Hazardous Chemicals List

The Occupational Safety and Health Administration (OSHA)
List of Highly Hazardous Chemicals, Toxics and Reactives

THE ENVIRONMENTAL PROTECTION AGENCY'S ACUTELY HAZARDOUS CHEMICALS LIST

CAS Number	Chemical Name	CAS Number	Chemical Name
107-20-0	Acetaldehyde, chloro-	544-92-3	Copper cyanide
591-08-2	Acetamide, N-(aminothioxo- methyl)-		Cyanide salts (soluble)
640-19-7	Acetamide, 2-fluoro-	460-19-5	Cyanogen
62-74-8	Acetic acid, fluoro-, sodium salt	506-77-4	Cyanogen chloride
591-08-2	1-Acetyl-2-thiourea	131-89-5	2-Cyclohexyl-4,6-dinitrophenol
107-02-8	Acrolein	542-88-1	Dichloromethyl ether
116-06-3	Aldicarb	696-28-6	Dichlorophenylarsine
309-00-2	Aldrin	60-57-1	Dieldrin
107-18-6	Allyl alcohol	692-42-2	Diethylarsine
20859-73-8	Aluminum phosphide	311-45-5	Diethyl-p-nitrophenyl phosphate
2763-96-4	5-(Aminomethyl)-3-isoxazolol	297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate
504-24-5	4-Aminopyridine	55-91-4	Diisopropylfluorophosphate (DFP)
131-74-8	Ammonium picrate	309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-
7803-55-6	Ammonium vanadate		1,4,4a,5,8,8a,-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-
506-61-6	Argentate (1-), bis(cyano-C)-, potassium	465-73-6	1,4,5,8-Dimethanonaphtahalen, 1,2,3,4,10,10, hexa-chloro-
7778-39-4	Arsenic acid		1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-
1327-53-3	Arsenic oxide		2,7:3,6-Dimethanonaphth[2,3- b]oxirene, 3,4,5,6,9,9-hexa-chloro-
1303-28-2	Arsenic pentoxide	60-57-1	1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2aalpha,3beta, 6beta,6aalpha,7beta,7aalpha)-
1327-53-3	Arsenic trioxide	72-20-8	2,7:3,6-Dimethanonaphth[2,3- b]oxirene, 3,4,5,6,9,9-hexachloro-
692-42-2	Arsine, diethyl-		1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2abeta,3alpha, 6alpha,6abeta,7beta,7aalpha)-& metabolites
696-28-6	Arsonous dichloride, phenyl-	60-51-5	Dimethoate
151-56-4	Aziridine	122-09-8	alpha,alpha-Dimethylphene- thylamine
75-55-8	Aziridine, 2-methyl-	534-52-1	4,6-Dinitro-o-cresol, & salts
542-62-1	Barium cyanide	51-28-5	2,4-Dinitrophenol
106-47-8	Benzeneamine, 4-chloro-	88-85-7	Dinoseb
100-01-6	Benzeneamine, 4-nitro-	152-16-9	Diphosphoramide, octamethyl-
100-44-7	Benzene, (chloromethyl)-	107-49-3	Diphosphoric acid, tetratethyl ester
51-43-4	1,2-Benzenediol, 4-[1-hydroxy-2- (methylamino)ethyl]-	298-04-4	Disulfoton
12-09-8	Benzeneethanamine, alpha, alpha-dimethyl-	541-53-7	Dithiobiuret
108-98-5	Benzenethiol	115-29-7	Endosulfan
100-44-7	Benzyl chloride	145-73-3	Endothal
7440-41-7	Beryllium powder	72-20-8	Endrin & metabolites
598-31-2	Bromoacetone		
357-57-3	Brucine		
39196-18-4	2-Butanone, 3,3-dimethyl-1- (methylthio)-O-[(methylamino) carbonyl]oxime		
592-01-8	Calcium cyanide		
75-15-1	Carbon disulfide		
75-44-5	Carbonic dichloride		
107-20-0	Chloroacetaldehyde		
106-47-8	p-Chloroaniline		
5344-82-1	1-(O-Chlorophenyl)thiourea		
542-76-7	3-Chloropropionitrile		

CAS Number	Chemical Name	CAS Number	Chemical Name
51-43-4	Epinephrine	145-73-3	7-Oxabicyclo(2,2,1)heptane-2,3-dicarboxylic acid
460-19-5	Ethanedinitrile	56-38-2	Parathion
16752-77-5	Ethanimidothioic acid	131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-
107-12-0	Ethyl cyanide	51-28-5	Phenol, 2,4-dinitro-
151-56-4	Ethyleneimine	534-52-1	Phenol, 2-methyl-4,6-dinitro-, & salts
52-85-7	Famphur	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-
7782-41-4	Fluorine	131-74-8	Phenol, 2,4,6-trinitro-, ammonium salt
640-19-7	Fluoroacetamide	62-38-4	Phenylmercury acetate
62-74-8	Fluoroacetic acid, sodium salt	103-85-5	Phenylthiourea
628-86-4	Fulminic acid, mercury(2+) salt	298-02-2	Phorate
76-44-8	Heptachlor	75-44-5	Phosgene
757-58-4	Hexaethyl tetraphosphate	7803-51-2	Phosphine
79-19-6	Hydrazinecarbothioamide	311-45-5	Phosphoric acid, diethyl 4-nitrophenyl ester
60-34-4	Hydrazine, methyl-	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester
74-90-8	Hydrocyanic acid	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)methyl] ester
74-90-8	Hydrogen cyanide	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl]ester
7803-51-2	Hydrogen phosphide	55-91-4	Phosphorofluoridic acid, bis(1-methylethyl) ester
465-73-6	Isodrin	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester
2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
62-38-4	Mercury, (aceto-O)phenyl-	298-00-0	Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester
628-86-4	Mercury fulminate	52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
62-75-9	Methanamine, N-methyl-N-nitroso-	78-00-2	Plumbane, tetraethyl-
624-83-9	Methane, isocyanato-	151-50-8	Potassium cyanide
542-88-1	Methane, oxybis(chloro-	506-61-6	Potassium silver cyanide
509-14-8	Methane, tetranitro-	116-06-3	Propanal, 2-methyl-2-(methylthio)-O-[(methylamino)carbonyl] oxime
75-70-7	Methanethiol, trichloro-	107-12-0	Propanenitrile
115-29-7	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide	542-76-7	Propanenitrile, 3-chloro
76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	75-86-5	Propanenitrile, 2-hydroxy-2-methyl
16752-77-5	Methomyl	55-63-0	1,2,3-Propanetriol, trinitrate
60-34-4	Methyl hydrazine	598-31-2	2-Propanone, 1-bromo
624-83-9	Methyl isocyanate	107-19-7	Propargyl alcohol
75-86-5	2-Methylactonitrile	107-02-8	2-Propenal
298-00-0	Methyl parathion	107-18-6	2-Propen-1-ol
86-88-4	alpha-Naphthylthiourea	75-55-8	1,2-Propylenimine
13463-39-3	Nickel carbonyl	107-19-7	2-Propyn-1-ol
557-19-7	Nickel cyanide	504-24-5	4-Pyridinamine
54-11-5	Nicotine & salts	54-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-& salts
10102-43-9	Nitric oxide		
100-01-6	p-Nitroaniline		
10102-44-0	Nitrogen dioxide		
10102-43-9	Nitrogen oxide		
55-63-0	Nitroglycerine		
62-75-9	N-Nitrosodimethylamine		
4549-40-0	N-Nitrosomethylvinylamine		
20816-12-0	Osmium oxide		
20816-12-0	Osmium tetroxide		

CAS Number	Chemical Name	CAS Number	Chemical Name
12039-52-0	Selenious acid, dithallium (1+) salt		
630-10-4	Selenourea		
506-64-9	Silver cyanide		
26628-22-8	Sodium azide		
143-33-9	Sodium cyanide		
57-24-9	Strychnidin-10-one, & salts		
357-57-3	Strychnidin-10-one, 2,3-dimethoxy-		
57-24-9	Strychnine, & salts		
7446-18-6	Sulfuric acid, dithallium (1+) salt		
3689-24-5	Tetraethyldithiopyrophosphate		
78-00-2	Tetraethyl lead		
107-49-3	Tetraethyl pyrophosphate		
509-14-8	Tetranitromethane		
757-58-4	Tetraphosphoric acid, hexaethyl ester		
1314-32-5	Thallic oxide		
12039-52-0	Thallium(I) selenite		
7446-18-6	Thallium(I) sulfate		
3689-24-5	Thiodiphosphoric acid, tetraethyl ester		
39196-18-4	Thiofanox		
541-53-7	Thioimidodicarbonic diamide		
108-98-5	Thiophenol		
79-19-6	Thiosemicarbazide		
5344-82-1	Thiourea, (2-chlorophenyl)-		
86-88-4	Thiourea, 1-naphthalenyl-		
103-85-5	Thiourea, phenyl-		
8001-35-2	Toxaphene		
75-70-7	Trichloromethanethiol		
7803-55-6	Vanadic acid, ammonium salt		
1314-62-1	Vandium oxide		
1314-62-1	Vanadium pentoxide		
4549-40-0	Vinylamine, N-methyl-N-nitroso-		
81-81-2	Warfarin, & salts, greater than 0.3%		
557-21-1	Zinc cyanide		
1314-84-7	Zinc phosphide		

OSHA's LIST OF HIGHLY HAZARDOUS CHEMICALS, TOXICS, AND REACTIVES

THIS APPENDIX CONTAINS A LISTING OF TOXIC AND REACTIVE HIGHLY HAZARDOUS CHEMICALS WHICH PRESENT A POTENTIAL FOR A CATASTROPHIC EVENT AT OR ABOVE THE THRESHOLD QUANTITY.

CHEMICAL NAME	CAS*	TQ**
Acetaldehyde	75-07-0	2500
Acrolein (2-Popenal)	107-02-8	150
Acrylyl Chloride	814-68-6	250
Allyl Chloride	107-05-1	1000
Allylamine	107-11-9	1000
Alkylaluminum	Varies	5000
Ammonia, Anhydrous	7664-41-7	10000
Ammonia solutions (greater than 44% ammonia by weight)	7664-41-7	15000
Ammonium Perchlorate	7790-98-9	7500
Ammonium Permanganate	7787-36-2	7500
Arsine (also called Arsenic Hydride)	7784-42-1	100
Bis(Chloromethyl) Ether	542-88-1	100
Boron Trichloride	10294-34-5	2500
Boron Trifluoride	7637-07-2	250
Bromine	7726-95-6	1500
Bromine Chloride	13863-41-7	1500
Bromine Pentafluoride	7789-30-2	2500
Bromine Trifluoride	7787-71-5	15000
3-Bromopropyne (also called Propargyl Bromide)	106-96-7	100
Butyl Hydroperoxide (Tertiary)	75-91-2	5000
Butyl Perbenzoate (Tertiary)	614-45-9	7500
Carbonyl Chloride (see Phosgene)	75-44-5	100
Carbonyl Fluoride	353-50-4	2500
Cellulose Nitrate (concentration greater than 12.6% nitrogen)	9004-70-0	2500
Chlorine	7782-50-5	1500
Chlorine Dioxide	10049-04-4	1000
Chlorine Pentafluoride	13637-63-3	1000
Chlorine Trifluoride	7790-91-2	1000
Chlorodiethylaluminum (also called Diethylaluminum Chloride)	96-10-6	5000
1-Chloro-2,4-Dinitrobenzene	97-00-7	5000
Chloromethyl Methyl Ether	107-30-2	500
Chloropicrin	76-06-2	500
Chloropicrin and Methyl Bromide mixture	None	1500

* CHEMICAL ABSTRACT SERVICE NUMBER

** THRESHOLD QUANTITY IN POUNDS
(AMOUNT NECESSARY TO BE COVERED
BY THIS STANDARD.)

CHEMICAL NAME	CAS*	TQ**
Chloropicrin and Methyl Chloride mixture	None	1500
Commune Hydroperoxide	80-15-9	5000
Cyanogen	460-19-5	2500
Cyanogen Chloride	506-77-4	500
Cyanuric Fluoride	675-14-9	100
Diacetyl Peroxide (concentration greater than 70%)	10-22-5	5000
Diazomethane	334-88-3	500
Dibenzoyl Peroxide	94-36-0	7500
Diborane	19287-45-7	100
Dibutyl Peroxide (Tertiary)	110-05-4	5000
Dichloro Acetylene	7572-29-4	250
Dichlorosilane	4109-96-0	2500
Diethylzinc	557-20-0	10000
Diisopropyl Peroxydicarbonate	105-64-6	7500
Dilauroyl Peroxide	105-74-8	7500
Dimethyldichlorosilane	75-78-5	1000
Dimethylhydrazine, 1,1-	57-14-7	1000
Dimethylamine, Anhydrous	124-40-3	2500
2,4-Dinitroaniline	97-02-9	5000
Ethyl Methyl Ketone Peroxide (also Methyl Ethyl Ketone Peroxide; concentration greater than 60%)	1338-23-4	5000
Ethyl Nitrite	109-95-5	5000
Ethylamine	75-04-7	7500
Ethylene Fluorohydrin	371-62-0	100
Ethylene Oxide	75-21-8	5000
Ethyleneimine	151-56-4	1000
Fluorine	7782-41-4	1000
Formaldehyde (Formalin)	50-00-0	1000
Furan	110-00-9	500
Hexafluoroacetone	684-16-2	5000
Hydrochloric Acid, Anhydrous	7647-01-0	5000
Hydrofluoric Acid, Anhydrous	7664-39-3	1000
Hydrogen Bromide	10035-10-6	5000
Hydrogen Chloride	7647-01-0	5000
Hydrogen Cyanide, Anhydrous	74-90-8	1000
Hydrogen Fluoride	7664-39-3	1000
Hydrogen Peroxide (52% by weight or greater)	7722-84-1	7500
Hydrogen Selenide	7783-07-5	150
Hydrogen Sulfide	7783-06-4	1500
Hydroxylamine	7803-49-8	2500
Iron, Pentacarbonyl	13463-40-6	250
Isopropylamine	75-31-0	5000
Ketene	463-51-4	100

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CHEMICAL NAME	CAS*	TQ**
Methacrylaldehyde	78-85-3	1000
Methacryloyl Chloride	920-46-7	150
Methacryloyloxyethyl Isocyanate	30674-80-7	100
Methyl Acrylonitrile	126-98-7	250
Methylamine, Anhydrous	74-89-5	1000
Methyl Bromide	74-83-9	2500
Methyl Chloride	74-87-3	15000
Methyl Chloroformate	79-22-1	500
Methyl Ethyl Ketone Peroxide (concentration greater than 60%)	1338-23-4	5000
Methyl Fluoroacetate	453-18-9	100
Methyl Fluorosulfate	421-20-5	100
Methyl Hydrazine	60-34-4	100
Methyl Iodide	74-88-4	7500
Methyl Isocyanate	624-83-9	250
Methyl Mercaptan	74-93-1	5000
Methyl Vinyl Ketone	79-84-4	100
Methyltrichlorosilane	75-79-6	500
Nickel Carbonyl (Nickel Tetracarbonyl)	13463-39-3	150
Nitric Acid (94.5% by weight or greater)	7697-37-2	500
Nitric Oxide	10102-43-9	250
Nitroaniline (para Nitroaniline)	100-01-6	5000
Nitromethane	75-52-5	2500
Nitrogen Dioxide	10102-44-0	250
Nitrogen Oxides (NO; NO(2); N ₂ O ₄ ; N ₂ O ₃)	10102-44-0	250
Nitrogen Tetroxide (also called Nitrogen Peroxide)	10544-72-6	250
Nitrogen Trifluoride	7783-54-2	5000
Nitrogen Trioxide	10544-73-7	250
Oleum (65% to 80% by weight; also called Fuming Sulfuric Acid)	8014-94-7	1000
Osmium Tetroxide	20816-12-0	100
Oxygen Difluoride (Fluorine Monoxide)	7783-41-7	100
Ozone	10028-15-6	100
Pentaborane	19624-22-7	100
Peracetic Acid (concentration greater than 60% Acetic Acid; also called Peroxyacetic Acid)	79-21-0	1000
Perchloric Acid (concentration greater than 60% by weight)	7601-90-3	5000

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CHEMICAL NAME	CAS*	TQ**
Perchloromethyl Mercaptan	594-42-3	150
Perchloryl Fluoride	7616-94-6	5000
Peroxyacetic Acid (concentration greater than 60% Acetic Acid; also called Peracetic Acid)	79-21-0	1000
Phosgene (also called Carbonyl Chloride)	75-44-5	100
Phosphine (Hydrogen Phosphide)	7803-51-2	100
Phosphorus Oxychloride (also called Phosphoryl Chloride)	10025-87-3	1000
Phosphorus Trichloride	7719-12-2	1000
Phosphoryl Chloride (also called Phosphorus Oxychloride)	10025-87-3	1000
Propargyl Bromide	106-96-7	100
Propyl Nitrate	627-3-4	2500
Sarin	107-44-8	100
Selenium Hexafluoride	7783-79-1	1000
Stibine (Antimony Hydride)	7803-52-3	500
Sulfur Dioxide (liquid)	7446-09-5	1000
Sulfur Pentafluoride	5714-22-7	250
Sulfur Tetrafluoride	7783-60-0	250
Sulfur Trioxide (also called Sulfuric Anhydride)	7446-11-9	1000
Sulfuric Anhydride (also called Sulfur Trioxide)	7446-11-9	1000
Tellurium Hexafluoride	7783-80-4	250
Tetrafluoroethylene	116-14-3	5000
Tetrafluorohydrazine	10036-47-2	5000
Tetramethyl Lead	75-74-1	1000
Thionyl Chloride	7719-09-7	250
Trichloro (chloromethyl) Silane	1558-25-4	100
Trichloro (dichlorophenyl) Silane	27137-85-5	2500
Trichlorosilane	10025-78-2	5000
Trifluorochloroethylene	79-38-9	10000
Trimethyloxysilane	2487-90-3	1500

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