

Appendix E

Hazardous Chemical Lists

The Environmental Protection Agency
Acutely Hazardous Chemicals List

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

Hazardous Chemical Lists

HAZARDOUS CHEMICAL LIST 5; 9B7M
571 HQM< 5N5F8CI G'7< 9A =75@G@-GH

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

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CAS Number*	Chemical Name	CAS Number	Chemical Name
51-28-5	2,4-Dinitrophenol	16752-77-5	Methomyl
88-85-7	Dinoseb	60-34-4	Methyl hydrazine
152-16-9	Diphosphoramidate, octamethyl-	624-83-9	Methyl isocyanate
107-49-3	Diphosphoric acid, tetraethyl ester	75-86-5	2-Methylactonitrile
298-04-4	Disulfoton	298-00-0	Methyl parathion
541-53-7	Dithiobiuret	86-88-4	alpha-Naphthylthiourea
115-29-7	Endosulfan	13463-39-3	Nickel carbonyl
145-73-3	Endothal	557-19-7	Nickel cyanide
72-20-8	Endrin & metabolites	54-11-5	Nicotine & salts
51-43-4	Epinephrine	10102-43-9	Nitric oxide
460-19-5	Ethanedinitrile	100-01-6	p-Nitroaniline
16752-77-5	Ethanimidothioic acid	10102-44-0	Nitrogen dioxide
107-12-0	Ethyl cyanide	10102-43-9	Nitrogen oxide
151-56-4	Ethyleneimine	55-63-0	Nitroglycerine
52-85-7	Famphur	62-75-9	N-Nitrosodimethylamine
7782-41-4	Fluorine	4549-40-0	N-Nitrosomethylvinylamine
640-19-7	Fluoroacetamide	20816-12-0	Osmium oxide
62-74-8	Fluoroacetic acid, sodium salt	20816-12-0	Osmium tetroxide
628-86-4	Fulminic acid, mercury(2+) salt	145-73-3	7-Oxabicyclo(2,2,1)heptane-2, 3-dicarboxylic acid
76-44-8	Heptachlor	56-38-2	Parathion
757-58-4	Hexaethyl tetraphosphate	131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-
79-19-6	Hydrazinecarbothioamide	51-28-5	Phenol, 2,4-dinitro-
60-34-4	Hydrazine, methyl-	534-52-1	Phenol, 2-methyl-4,6-dinitro-, & salts
74-90-8	Hydrocyanic acid	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-
74-90-8	Hydrogen cyanide	131-74-8	Phenol, 2,4,6-trinitro-, ammonium salt
7803-51-2	Hydrogen phosphide	62-38-4	Phenylmercury acetate
465-73-6	Isodrin	103-85-5	Phenylthiourea
2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-	298-02-2	Phorate
62-38-4	Mercury, (aceto-O)phenyl-	75-44-5	Phosgene
628-86-4	Mercury fulminate	7803-51-2	Phosphine
62-75-9	Methanamine, N-methyl-N-nitroso-	311-45-5	Phosphoric acid, diethyl 4-nitrophenyl ester
624-83-9	Methane, isocyanato-	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester
542-88-1	Methane, oxybis(chloro-	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)methyl] ester
509-14-8	Methane, tetranitro-	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl]ester
75-70-7	Methanethiol, trichloro-	55-91-4	Phosphorofluoridic acid, bis(1-methylethyl) ester
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	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester
76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-		

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CAS Number	Chemical Name	CAS Number	Chemical Name
297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	3689-24-5	Tetraethyldithiopyrophosphate
298-00-0	Phosphorothioic acid, O,O-dimethylO-(4-nitrophenyl) ester	78-00-2	Tetraethyl lead
52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl]O,O-dimethyl ester	107-49-3	Tetraethyl pyrophosphate
78-00-2	Plumbane, tetraethyl-	509-14-8	Tetranitromethane
151-50-8	Potassium cyanide	757-58-4	Tetrphosphoric acid, hexaethyl ester
506-61-6	Potassium silver cyanide	1314-32-5	Thallic oxide
116-06-3	Propanal, 2-methyl-2-(methylthio)-O-[(methylamino)carbonyl] oxime	12039-52-0	Thallium(I) selenite
107-12-0	Propanenitrile	7446-18-6	Thallium(I) sulfate
542-76-7	Propanenitrile,3-chloro	3689-24-5	Thiodiphosphoric acid, tetraethyl ester
75-86-5	Propanenitrile, 2-hydroxy-2-methyl	39196-18-4	Thiofanox
55-63-0	1,2,3-Propanetriol, trinitrate	541-53-7	Thioimidodicarbonic diamide
598-31-2	2,Propanone, 1-bromo	108-98-5	Thiophenol
107-19-7	Propargyl alcohol	79-19-6	Thiosemicarbazide
107-02-8	2-Propenal	5344-82-1	Thiourea, (2-chlorophenyl)-
107-18-6	2-Propen-1-ol	86-88-4	Thiourea, 1-naphthalenyl-
75-55-8	1,2-Propylenimine	103-85-5	Thiourea, phenyl-
107-19-7	2-Propyn-1-ol	8001-35-2	Toxaphene
504-24-5	4-Pyridinamine	75-70-7	Trichloromethanethiol
54-11-5	Pyridine,3-(1-methyl-2-pyrrolidinyl)-& salts	7803-55-6	Vanadic acid, ammonium salt
12039-52-0	Selenious acid, dithallium (1+) salt	1314-62-1	Vandium oxide
630-10-4	Selenourea	1314-62-1	Vanadium pentoxide
506-64-9	Silver cyanide	4549-40-0	Vinylamine, N-methyl-N-nitroso-
26628-22-8	Sodium azide	81-81-2	Warfarin, & salts, greater than 0.3%
143-33-9	Sodium cyanide	557-21-1	Zinc cyanide
57-24-9	Strychnidin-10-one, & salts	1314-84-7	Zinc phosphide
357-57-3	Strychnidin-10-one, 2,3-dimethoxy-		
57-24-9	Strychnine, & salts		
7446-18-6	Sulfuric acid, dithallium (1+) salt		

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C771 D5HCB5@Cb: 9HM5B8 < 95@H 58A =B-GH5HCB
@-GHc: < = < @M< 5N5F8CI G7< 9A =75@GZ
HCL=7GZ5B8 F957HJ9G

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 Chlorde	814-68-6	250
Allyl Chlorid	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

* Chemical Abstract Service Number

** Threshold Quantity in Pounds (Amount necessary to be covered by this standard.)

CHEMICAL NAME	CAS*	TQ**
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
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

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CHEMICAL NAME	CAS*	TQ**
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
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

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CHEMICAL NAME	CAS*	TQ**
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
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

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CHEMICAL NAME	CAS*	TQ**
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
Trimethoxysilane	2487-90-3	1500

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