

List of Hazardous Agents Requiring Reporting to IUPUI Office of Environmental Health and Safety

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
(MPTP) 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine	28289-54-5	solid	Irreversible parkinsonism. Selegiline HCL antidote required
1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl-CCNU; Semustine)	13909-09-6	solid	IARC known carcinogen
1,2-Butylene Oxide	106-88-7	liquid	Mutagen
1,2-dichloroethane	107-06-2	liquid	Mutagen
1,2-Dihydroxybenzene	120-80-9	solid	Mutagen
1,2-Dimethylhydrazine	540-73-8	liquid	Mutagen
1,2-OXATHIOLANE 2,2 DIOXIDE	1120-71-4	solid	Mutagen
1,2-PROPYLENE OXIDE	75-56-9	liquid	Extremely flammable
1,3-Bis(2-chloroethylthio)-n-propane	63905-10-2	gas	DHS
1,3-Butadiene	106-99-0	gas	OSHA Known Carcinogen/Mutagen/Teratogen
1,3-Dichloropropene	542-75-6	liquid	Mutagen
1,4-Bis(2-chloroethylthio)-n-butane	142868-93-7	gas	DHS
1,4-Butanediol dimethanesulfonate (Busulphan;Myler)	55-98-1	solid	IARC known carcinogen
1,5-Bis(2-chloroethylthio)-n-pentane	142868-94-8	gas	DHS
1-Chloro-2,3-dibromopropane	96-12-8	liquid	OSHA Known Carcinogen
1-methyl-3-nitrosoguanidine	75-25-7	solid	Mutagen
1-PENTENE, 95%	109-67-1	liquid	Extremely flammable
1-Phenylethanol	98-85-1	liquid	peroxide formation upon concentration
2,3,7,3-tetrachlorodibenzo-p-dioxin			Teratogen
2,3,7,8-Tetrachlorodibenzo-para-dioxin (TCDD)	1746-01-6	solid	IARC known carcinogen
2,3-Epoxy-1-propanol	556-52-5	liquid	Mutagen
2,4-D	94-75-7	solid	Mutagen
2,4-Dinitrotoluene	121-14-2	solid	Mutagen
2,6-Dinitrotoluene	606-20-2	solid	Mutagen
2-Acetylaminofluorene	53-96-3	solid	OSHA 13 CARCINOGEN/Mutagen
2-Butanol	78-92-2	liquid	peroxide formation upon concentration
2-Chloroacetophenone	532-27-4	solid	LC50 = 59 mg/m3; 0.05 ppm TWA fatal if inhaled
2-Chloroethylchloro-methylsulfide	2625-76-5	liquid	DHS
2-Cyclohexen-1-ol	822-67-3	liquid	peroxide formation upon concentration
2-ethoxyethanol	110-80-5	liquid	Teratogen
2-Hexanol	626-93-7	liquid	peroxide formation upon concentration
2-Isocyanatoethyl methacrylate	30674-80-7	liquid	Inhalation Rat LC50=4ppm
2-METHOXYPROPENE	116-11-0	liquid	Extremely flammable
2-METHYLBUTANE	78-78-4	liquid	Extremely flammable

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2-Naphthylamine	91-59-8	solid	OSHA Known Carcinogen/Mutagen
2-Pentanol	6032-29-7	liquid	peroxide formation upon concentration
2-Phenylethanol	60-12-8	liquid	peroxide formation upon concentration
2-Propanol	67-63-0	liquid	peroxide formation upon concentration
3,3'-Diamino-N-Methyldipropylamine	105-83-9	liquid	Dermal LD50 Rabbit : 140 uL/kg
3,3'-Dichlorobenzidine (and its salts)	91-94-1	solid	OSHA 13 CARCINOGEN/Mutagen
3,3-DIMETHYL-1-BUTYNE	917-92-0	liquid	Extremely flammable
3-3'-dichlorobenzidine	91-94-1	solid	Mutagen
3-Methyl-1-butanol	123-51-3	liquid	peroxide formation upon concentration
3-methylcholanthrene	56-49-5	solid	Mutagen
4,4'-methylene bis (2-chloroaniline)	101-14-4	solid	Mutagen
4,4'-Methylenedianiline	101-77-9	solid	OSHA Known Carcinogen
4-Aminodiphenyl	92-67-1	solid	OSHA 13 CARCINOGEN/Mutagen
4-Dimethylaminoazo-benzene	60-11-7	solid	OSHA 13 CARCINOGEN
4-Heptanol	589-55-9	liquid	peroxide formation upon concentration
4-Methyl-2-pentanol	108-11-2	liquid	peroxide formation upon concentration
4-Nitrobiphenyl	92-93-3	solid	OSHA 13 CARCINOGEN
4-Penten-1-ol	821-09-0	liquid	peroxide formation upon concentration
5-Bromouracil	51-20-7	solid	Mutagen
5-fluorouracil	51-21-8	solid	Teratogen
Abrin	1393-62-0	solid	Select Agent
Acetal	105-57-7	liquid	peroxide formation upon concentration
ACETALDEHYDE	75-07-0	liquid	Extremely flammable/mutagen/teratogen/peroxide former
Acetone cyanohydrin, stabilized	75-86-5	liquid	DHS
ACETYLENE	74-86-2	gas	Extremely flammable
Acrolein	107-02-8	liquid	Mouse LC50=66ppm IDLH=6ppm
Acrylic acid	79-10-7	liquid	Peroxide former with auto polymerization
Acrylonitrile	107-13-1	liquid	Peroxide former with auto polymerization/teratogen/Carcinogen
Aflatoxin B1	1162-65-8	solid	Mutagen
Aflatoxins	1402-68-2	solid	IARC known carcinogen
ALDRIN	309-00-2	solid	Teratogen
Alkali Metals	various	solid	air reactive
alpha-Naphthylamine	134-32-7	solid	OSHA 13 CARCINOGEN
Aluminum (powder)	7429-90-5	solid	DHS
Aluminum phosphide	20859-73-8	solid	DHS
AMINOPTERIN	54-62-6	solid	Teratogen
Ammonium cyanide	12211-52-8	solid	Cyanide salt
Ammonium dichromate (VI)	7789-09-5	solid	IARC known carcinogen/Mutagen

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Ammonium nitrate	6484-52-2	solid	DHS
Ammonium perchlorate	7790-98-9	solid	DHS/NFPA Class 4 oxidizer
Ammonium permanganate	13446-10-1	solid	NFPA Class 4 Oxidizer
Ammonium picrate	131-74-8	solid	DHS
Analgesic mixtures containing phenacetin	62-44-2	solid	IARC known carcinogen
Arsanilic acid	98-50-0	solid	IARC known carcinogen
Arsenic acid, calcium salt	10103-62-5	solid	IARC known carcinogen
Arsenic acid, calcium salt (2:3)	7778-44-1	solid	IARC known carcinogen
Arsenic sulfide	1303-33-9	solid	IARC known carcinogen
Arsenic trichloride	7784-34-1	liquid	DHS
Arsenic trioxide	1327-53-3	solid	IARC known carcinogen
Arsenic, elemental, and inorganic compounds, as As	7440-38-2	solid	OSHA Known Carcinogen/teratogen
Arsenious acid, monosodium salt	7784-46-5	solid	IARC known carcinogen
Arsine	7784-42-1	gas	DHS/IARC known carcinogen
Azathioprine	446-86-6	solid	IARC known carcinogen
Barium azide	18810-58-7	solid	DHS
Barium chromate(VI)	10294-40-3	solid	IARC known carcinogen
BENOMYL	17804-35-2	solid	Teratogen
Benz(a)anthracence	56-55-3	solid	Mutagen
Benz(a)anthracence, 7,12-Dimethyl-	57-97-6	solid	Mutagen/Teratogen
Benzene	71-43-2	liquid	OSHA Known Carcinogen/teratogen/mutagen
Benzenethiol	108-98-5	liquid	LC 50=28ppm
Benzidine	92-87-5	solid	OSHA 13 CARCINOGEN/mutagen
Benzidine dihydrochloride	531-85-1	solid	IARC known carcinogen
Benzidine hydrochloride	14414-68-7	solid	IARC known carcinogen
Benzidine sulphate	531-86-2	solid	IARC known carcinogen
Benzo(a)Pyrene	50-32-8	solid	IARC known carcinogen/mutagen
Benzyl alcohol	100-51-6	liquid	peroxide formation upon concentration
Benzyl chloride	100-44-7	liquid	Mutagen
Beryllium and beryllium compounds	7440-41-7	solid	IARC known carcinogen
beta-Naphthylamine	91-59-8	solid	OSHA 13 CARCINOGEN
beta-Propiolactone	57-57-8	liquid	OSHA 13 CARCINOGEN, Mutagen
Bis(2-chloroethylthio)methane	63869-13-6	liquid	DHS
Bis(2-chloroethylthiomethyl)ether	63918-90-1	liquid	DHS
BIS(2-EHYLHEXYL)PHTHALATE	117-81-7	liquid	Teratogen
bis-Chloromethyl ether	542-88-1	liquid	OSHA 13 CARCINOGEN
Boron tribromide	10294-33-4	liquid	DHS
Boron trichloride	10294-34-5	gas	DHS

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Boron trifluoride	7637-07-2	gas	DHS
Botulinum neurotoxin	93384-43-1	solid	Select Agent
Bromine chloride	13863-41-7	gas	DHS
Bromine pentafluoride	7789-30-2	liquid	DHS
Bromine trifluoride	7787-71-5	liquid	DHS
Bromodeoxyuridine (BrdU)	59-14-3	solid	Mutagen
BROMOETHANE	74-96-4	liquid	Extremely flammable
Brucine Sulfate	5787-00-8	solid	Extreme inhalation toxicity, oral LD50=1mg/kg
Butadiene	106-99-0	gas	Peroxide former with auto polymerization
Butadine	9003-55-8	solid	Peroxide formation without concentration
BUTANE	106-97-8	gas	Extremely flammable
Cadmium and cadmium compounds	543-90-8	solid	IARC known carcinogen
Cadmium Chloride	10108-64-2	solid	Mutagen/Teratogen
cadmium Sulfate	10124-36-4	solid	Mutagen
Calcium chromate (VI)	13765-19-0	solid	IARC known carcinogen/Mutagen
Calcium cyanide	592-01-8	solid	Cyanide poisoning kits should be available in the lab
Calcium phosphide	1305-99-3	solid	DHS
CARBON DISULFIDE	75-15-0	liquid	Teratogen
Carbon monoxide	630-08-0	gas	CO posioning/extremely flammable
Carbonyl fluoride	353-50-4	gas	DHS
Carbonyl sulfide	463-58-1	gas	DHS
Cesium	7440-46-2	solid	Alkali metal
Charybdotoxin	95751-30-7	solid	fatal if enters bloodstream
Chlorambucil	305-03-3	solid	IARC known carcinogen
chlorfenvinphos	470-90-6	liquid	Teratogen
Chlorine	7782-50-5	gas	DHS/highly toxic
Chlorine dioxide	10049-04-4	gas	DHS
Chlorine pentafluoride	13637-63-3	gas	DHS
Chlorine trifluoride	7790-91-2	gas	DHS
Chloroacetyl chloride	79-04-9	liquid	DHS
Chloroform	67-66-3	liquid	can generate phosgene gas
Chloromethyl methyl ether	107-30-2	liquid	OSHA Known Carcinogen
Chloroprene	126-99-8	gas	Peroxide former with auto polymerization
Chlorosarin	1445-76-7	liquid	DHS
Chlorosoman	7040-57-5	liquid	DHS
Chlorosulfonic acid	7790-94-5	liquid	LC50 Inhalation - rat - 4 h - 38.5 mg/m3
Chlorotrianisene	569-57-3	solid	IARC known carcinogen
Chlorotrifluoroethylene	79-38-9	gas	Peroxide former with auto polymerization

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Chromate(1-), Hydroxyoctaoxodizincatedi-, Potassium	11103-86-9	solid	IARC known carcinogen
Chrome iron nickel black spinel	71631-15-7	solid	IARC known carcinogen
Chromic acid, disodium salt	7775-11-3	solid	IARC known carcinogen
chromic trioxide	1333-82-0	solid	Teratogen
Chromium oxychloride	14977-61-8	liquid	DHS
Ciclosporin	79217-60-0	liquid	IARC known carcinogen
Cisplatin	15663-27-1	solid	Mutagen
Clostridium perfringens epsilon toxin	N/A	bacteria	Select Agent
colchicine	68-86-8	solid	Teratogen
COLLODION	9004-70-0	gas	peroxide former
Conotoxins	115797-06-3	solid	Select Agent
Compressed gases	various	gas	Physical hazard
Copper (I) cyanide	544-92-3	solid	Cyanide salt
Copper (II) cyanide	4367-08-2	solid	Cyanide salt
crotonaldehyde	123-73-9, 4170-30-3	liquid	Mutagen
Cumene	98-82-8	liquid	peroxide formation upon concentration
Cyanide compunds (any)	various	solid, gas	Cyanide poisoning kits should be available in the lab
Cyanogen	460-19-5	gas	DHS
Cyanogen bromide	506-68-3	solid	generates HCN when reacts with moisture
Cyanogen chloride	506-77-4	gas	DHS
cyclohexamide	66-81-9	solid	Teratogen
Cyclohexanol	108-93-0	liquid	peroxide formation upon concentration
Cyclohexene	110-83-8	liquid	peroxide formation upon concentration
cyclohexylamine	108-91-8	liquid	Mutagen
Cyclooctene	931-87-3	liquid	Class 2 peroxide former
Cyclopentene	142-29-0	liquid	Class 2 peroxide former
Cyclophosphamide	50-18-0	solid	IARC known carcinogen
Cyclophosphamide hydrate	6055-19-2	solid	IARC known carcinogen
CYCLOPROPANE	75-19-4	gas	Extremely flammable
Cyclosporin A	59865-13-3	solid	IARC known carcinogen
DBCP/ 1,2-Dibormo-3-chloropropane	96-12-8	liquid	Mutagen
DDT	50-29-3	solid	Teratogen
Decahydronaphthalene	91-17-8	liquid	peroxide formation upon concentration
DF	676-99-3	liquid	DHS
Di(1-propynyl)ether			Extreme reactive and unstable
Diacetoxyscirpenol	2270-40-8	solid	Select Agent
Diacetylene	460-12-8	gas	peroxide formation upon concentration
diazinon	333-41-5	liquid	Teratogen

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
Diazodinitrophenol	87-31-0	solid	DHS
Diazomethane	334-88-3	gas	IDLH 2 ppm
Dibenz(a,h)anthracene	53-70-3	solid	Mutagen
Diborane	19287-45-7	gas	DHS
Dichloromethane (Methylene Chloride)	75-09-2	liquid	OSHA Known Carcinogen
Dichlorosilane	4109-96-0	gas	DHS
Dicyclopentadiene	77-73-6	solid	peroxide formation upon concentration
dieldrin	60-57-1	solid	Teratogen
Diethyketene	24264-08-2	liquid	Extreme reactive and unstable
Diethyl ether	60-29-7	liquid	peroxide formation upon concentration
Diethyl methylphosphonite	15715-41-0	liquid	DHS
Diethyl sulfate	64-67-5	liquid	Mutagen
Diethylene glycol dimethyl ether (diglyme)	111-96-6	liquid	peroxide formation upon concentration
DIETHYLPHOSPHORAMIDOUS DICHLORIDE	1069-08-5	liquid	reacts violently with water
Diethylstilbesterol (DES)	56-53-1	solid	IARC known carcinogen/Mutagen/teratogen
Diethylstilboestrol dipropionate	130-80-3	solid	IARC known carcinogen
Diglycidyl ether	2238-07-5	liquid	Inhalation, mouse: LC50 = 30 ppm/4H;
Dimethyl Sulfate	77-78-1	liquid	Rat LC50=45 mg/m3, Mutagen/ teratogen
dimethoate	60-51-5	solid	Teratogen
DIMETHYLAMINE	124-40-3	gas	Extremely flammable
Dimethylarsinic acid	75-60-5	solid	IARC known carcinogen
Dimethylcarbamoyl Chloride	79-44-7	liquid	Mutagen
dimethylformamide	68-12-2	liquid	Teratogen
Dimethylketene	598-26-5	liquid	Extreme reactive and unstable
Di-n-amylamine	2050-92-2	liquid	Inhalation, rat: LC50 = 66 ppm/4H
di-n-butyl phthalate	84-74-2	liquid	Teratogen
Di-n-butylamine	111-92-2	liquid	LC50/rat: 1.15 mg/l / 4 h
Dinitrogen tetroxide	10544-72-6	liquid	DHS
Dinitrophenol	25550-58-7	solid	DHS
Dinitroresorcinol	519-44-8	solid	DHS
dinoseb	88-85-7	solid	Teratogen
Dioxanes	123-91-1	liquid	peroxide formation upon concentration
Diphenyldichlorosilane	80-10-4	liquid	DHS
Dipicryl sulfide	2217-06-3	solid	DHS
Dipicrylamine [or] Hexyl	131-73-7	solid	DHS
Di-Tert-Butylphosphene	819-19-2	liquid	Spontaneously Flammable in air
Divinylacetylene	821-08-9	liquid	Peroxide formation without concentration
Doxorubicin	23214-92-8	solid	Mutagen

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Emetine-Dihydrochloride	316-2-7	solid	ORL-RAT LD50:12 UG/KG
endrin	72-20-8	solid	Teratogen
Epichlorohydrin	106-89-8	liquid	Mutagen
ergotamine tartrate	379-79-3	solid	Teratogen
Erionite	66733-21-7	solid	IARC known carcinogen
ETHANE	74-84-0	gas	Extremely flammable
ETHANETHIOL	75-08-1	liquid	Extremely flammable
Ethidium Bromide	1239-45-8	solid	Mutagen
ETHYL ETHER/Diethyl ether	60-29-7	liquid	Extremely flammable/peroxide former
ethyl methanesulfonate	62-50-0	liquid	Mutagen
Ethyl phosphonyl difluoride	753-98-0	liquid	DHS
ETHYLAMINE, ANHYDROUS	75-04-7	gas	Extremely flammable
ETHYLENE	74-85-1	gas	Extremely flammable
ethylene dibromide	106-93-4	liquid	Mutagen/Teratogen
Ethylene glycol dimethyl ether (glyme)	110-71-4	liquid	peroxide formation upon concentration
Ethylene Oxide	75-21-8	pressurized liquid gas	Known Carcinogen/strong mutagen/teratogen/extremely flammable
ethylene thiourea	96-45-7	solid	Teratogen
Ethyleneimine	151-56-4	liquid	OSHA 13 CARCINOGEN/mutagen
Ethylphosphonothioic dichloride	993-43-1	liquid	DHS
Ferronickel	11133-76-9	solid	IARC known carcinogen
Fluorine	7782-41-4	gas	DHS
Fluoroacetic Acid, Sodium salt	62-74-8	solid	Rat oral LD50= 100ug/kg
Fluorosulfonic acid	7789-21-1	liquid	DHS
Formaldehyde	50-00-0	liquid	IARC known carcinogen/mutagen
Formic Acid	64-18-6	liquid	Requires vented caps or occasional venting.
FORMIC ACID METHYL ESTER	107-31-3	liquid	Extremely flammable
Fowler's solution	1332-10-1	liquid	IARC known carcinogen
FURAN	110-00-9	liquid	peroxide former
Gallium Arsenide	1303-00-0	solid	IARC known carcinogen
Germane	7782-65-2	gas	DHS
Germanium tetrafluoride	7783-58-6	gas	DHS
Gersdorffite	12255-11-7	solid	IARC known carcinogen
Gold Cyanide	506-65-0	solid	Requires cyanide poisoning kit
Guanidine nitrate	506-93-4	solid	NFPA class 4 oxidizer
Halothane	151-67-7	liquid	Teratogen

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heptachlor	76-44-1	solid	Teratogen
heptachlorobenzene	116-74-1	solid	Teratogen
Hexafluoroacetone	684-16-2	gas	DHS
Hexamethylene diisocyanate	822-06-0	liquid	Inhalation Rat LC50=40ppm
Hexanitrostilbene	20062-22-0	liquid	DHS
Hexoestrol	84-16-2	solid	IARC known carcinogen
HMX, RDX, and mixtures	2691-41-0 121-82-4	solid	DHS
HN1 (nitrogen mustard-1)	538-07-8	liquid	DHS
HN2 (nitrogen mustard-2)	51-75-2	solid	DHS
HN3 (nitrogen mustard-3)	555-77-1	liquid	DHS
hydrazine	302-01-2	liquid	Mutagen/Teratogen
Hydrocyanic acid solutions	74-90-8	gas	Requires cyanide poisoning kit
Hydrofluoric acid	7664-39-3	liquid	Requires Calcium Gluconate antidote
HYDROGEN	1333-74-0	gas	Extremely flammable
Hydrogen bromide	10035-10-6	gas	DHS/time sensitive
Hydrogen cyanide	74-90-8	gas	DHS-Requires cyanide poisoning kit
Hydrogen iodide, anhydrous	10034-85-2	gas	DHS
Hydrogen selenide	7783-07-5	gas	DHS
Imgreite	24270-51-7	solid	IARC known carcinogen
ISOBUTYLENE	115-11-7	gas	Extremely flammable
ISOPRENE	78-79-5	liquid	Extremely flammable
ISOPROPYLAMINE	75-31-0	liquid	Extremely flammable
Isopropyl ether	108-20-3	liquid	Class 3 peroxide former
Isopropylphosphonothioic dichloride	1498-60-8	liquid	DHS
Isopropylphosphonyl difluoride	677-42-9	liquid	DHS
Laser- Class 3b or 4 non-sealed beam	N/A	N/A	Requires registration
LC (Ketene)	463-51-4	gas	LC50 mouse= 17ppm
lead acetate	301-04-2	solid	Teratogen
Lead azide	13424-46-9	solid	DHS
lead chloride	7758-95-4	solid	Teratogen
Lead chromate(VI) oxide	18454-12-1	solid	IARC known carcinogen
Lead cyanide	592-05-2	solid	Cyanide salt
lead nitrate	10099-74-8	solid	Teratogen
Lewisite 1	541-25-3	liquid	DHS
Lewisite 2	40334-69-8	liquid	DHS
Lewisite 3	40334-70-1	liquid	DHS
Lithium	7439-93-2	solid	Alkali metal

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Lithium amide	7782-89-0	solid	DHS
Lithium cyanide	2408-36-8	liquid	Requires cyanide poisoning kit
Lithium hydride	7580-67-8	solid	Reacts violently with water liberating hydrogen gas
Lithium nitride	26134-62-3	solid	DHS
Magnesium (powder)	7439-95-4	solid	DHS
Magnesium phosphide	12057-74-8	solid	DHS
Makinenite	12201-85-3	solid	IARC known carcinogen
Maucherite	12044-65-4	solid	IARC known carcinogen
MDEA	105-59-9	liquid	DHS
Melphalan	148-82-3	solid	IARC known carcinogen/mutagen
mercuric oxide	21908-53-2	solid	Teratogen
Mercury (II) cyanide	592-04-1	solid	Cyanide salt
Mercury (organo) alkyl compounds(as Hg)	various	liquid/solid	Must be approved by Lab Safety Committee
Mercury and mercury containing devices	7439-97-6	liquid	Must be approved by Lab Safety Committee
Mercury fulminate	628-86-4	solid	DHS
METHANE	74-82-8	gas	Extremely flammable
Methanearsonic acid, disodium salt	144-21-8	solid	IARC known carcinogen
Methanearsonic acid, monosodium salt	2163-80-6	solid	IARC known carcinogen
METHANETHIOL	74-93-1	liquid	Extremely flammable
Methoxyfluorane	76-38-0	liquid	Teratogen
Methyl acetylene	74-99-7	gas	Class 2 peroxide former
methyl bromide	74-83-9	gas	Mutagen
METHYL CHLORIDE/Chloromethane	74-87-3	pressurized liquid gas	Mutagen/Extremely flammable/teratogen
methyl chloromethyl ether	107-30-2	liquid	OSHA 13 CARCINOGEN
Methyl cyclopentane	96-37-7	liquid	Class 2 peroxide former
Methyl ethyl ketone peroxide	1338-23-4	liquid	inhalation LC50 mouse=170 ppm
Methyl fluorosulfonate	421-20-5	liquid	IDLH 5 ppm
METHYL FORMATE	107-31-3	liquid	Extremely flammable
Methyl isobutyl ketone	108-10-1	liquid	peroxide formation upon concentration
Methyl isocyanate	624-83-9	liquid	Skin Rabbit LD50 220ul/kg
Methyl mercaptan	74-93-1	liquid	Inhalation mouse LC50= 6.53 mg/m3
methyl mercury	22967-92-6	solid	Teratogen/Must be approved by Lab Safety Committee
Methyl methacrylate	80-62-6	liquid	Peroxide former with auto polymerization
METHYL SULFIDE, ANHYDROUS	75-81-3	liquid	Extremely flammable
Methyl vinyl ketone	78-94-4	liquid	Inhalation, rat: LC50 = 7 mg/m3

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Methylacetylene	74-99-7	gas	peroxide formation upon concentration
METHYLAMINE SOLN	74-89-5	liquid	Extremely flammable
Methylchlorosilane	993-00-0	gas	DHS
Methylcyclopentane	96-37-7	liquid	peroxide formation upon concentration
Methyldichlorosilane	75-54-7	liquid	DHS
methylene chloride	75-09-2	liquid	Mutagen/Teratogen
Methylphosphonothioic dichloride	676-98-2	liquid	DHS
METHYL-T-BUTYL ETHER	1634-04-4	liquid	Extremely flammable
Molybdate orange	12656-85-8	solid	IARC known carcinogen
Mustard gas	505-60-2	liquid	IARC known carcinogen/mutagen
N,N-(2-diethylamino)ethanethiol	100-38-9	liquid	DHS
N,N-(2-diisopropylamino)ethanethiol	5842-07-9	liquid	DHS
N,N-(2-dimethylamino)ethanethiol	108-02-1	liquid	DHS
N,N-(2-dipropylamino)ethanethiol	5842-06-8	liquid	DHS
N,N-Bis(2-chloroethyl)-2-naphthylamine (Chlornapha	494-03-1	solid	IARC known carcinogen
N,N-Diethyl phosphoramidic dichloride	1498-54-0	liquid	DHS
N,N-Diisopropyl phosphoramidic dichloride	23306-80-1	liquid	DHS
N,N-Dimethyl phosphoramidic dichloride	677-43-0	liquid	DHS
N,N-Dipropyl phosphoramidic dichloride	40881-98-9	liquid	DHS
nickel carbonyl	13463-39-3	liquid	Teratogen
nickel chloride	7791-20-0	solid	Mutagen
Nickel compounds	various	solid	IARC known carcinogen
nickel sulfate	7786-81-4	solid	Mutagen
Nickelene	1303-13-5	solid	IARC known carcinogen
Nitric acid	7697-37-2	liquid	DHS
Nitric oxide	10102-43-9	gas	DHS
nitrobenzene	98-95-3	liquid	Teratogen
Nitrocellulose	9004-70-0	solid	DHS
Nitrogen dioxide	10102-44-0	gas	Inhalation Rat LC50=88PPM
nitrogen mustard	51-75-2	liquid	Mutagen/Teratogen
Nitrogen mustard hydrochloride	55-86-7	solid	DHS
Nitrogen trioxide	10544-73-7	gas	DHS
Nitroglycerine	55-63-0	liquid	DHS
Nitromannite	15825-70-4	solid	DHS
Nitromethane	75-52-5	liquid	DHS
Nitrostarch	9056-38-6	solid	DHS
Nitrosyl chloride	2696-92-6	gas	DHS
Nitrotriazolone	932-64-9	solid	DHS

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
n-methyl-n-nitrosoethylcarbamate	615-53-2	liquid	Mutagen
N-NITROSIMORPHOLINE	59-89-2	solid	Mutagen
N-Nitrosodimethylamine	62-75-9	liquid	OSHA 13 CARCINOGEN/mutagen
N-NITROSODI-N-BUTYLAMINE	924-16-3	liquid	Mutagen
N-NITROSODI-N-PROPYLAMINE	621-64-7	liquid	Mutagen
N-NITROSO-N-ETHYLUREA	759-73-9	solid	Mutagen/Teratogen
n-nitroso-n-methylurea	684-93-5	solid	Teratogen
NONITROSODIETHYLAMINE	55-18-5	liquid	Mutagen
o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate	78-53-5	liquid	DHS
Oestrone benzoate	2393-53-5	solid	IARC known carcinogen
O-Mustard (T)	63918-89-8	liquid	DHS
Organic peroxides	various	various	Reactive
Organophosphate Compounds	various	various	Requires Atropine antidote
Osmium tetroxide	20816-12-0	solid	IDLH 1 mg/m3
O-TOLUIDINE	95-83-4	liquid	Mutagen
Oxygen difluoride	7783-41-7	gas	DHS
Ozone	10028-15-6	gas	Rat LC50=4.8 ppm
para-Dimethylaminoazobenzene	60-11-7	solid	IARC known carcinogen
Pentaborane	19624-22-7	liquid	can ignite spontaneously in air
PENTANE	109-66-0	liquid	Extremely flammable
PENTENE	25377-72-4	liquid	Extremely flammable
Pentlandite	53809-86-2	solid	IARC known carcinogen
Perchloric acid >70%	7601-90-3	liquid	can form explosive perchlorates in hood if heated
Perchloromethyl mercaptan	594-42-3	liquid	Inhalation, rat: LC50 = 11 ppm/
Perchloryl fluoride	7616-94-6	gas	DHS
PETROLEUM ETHER	8032-32-4	liquid	Extremely flammable
Phenol	108-95-2	solid	nephrotoxic/neurotoxic after dermal exposure/Mutagen
Phenyl isocyanate	103-71-9	liquid	Inhalation, rat: LC50 = 22mg/m3
Phosgene	75-44-5	gas	DHS
Phosphine	7803-51-2	gas	DHS
Phosphorus	7723-14-0	solid	DHS
Phosphorus oxychloride	10025-87-3	liquid	DHS
Phosphorus pentabromide	7789-69-7	solid	DHS
Phosphorus pentachloride	10026-13-8	solid	DHS
Phosphorus pentasulfide	1314-80-3	solid	DHS
Phosphorus trichloride	7719-12-2	liquid	DHS
Picric acid	88-89-1	solid	
Picrite	556-88-7	solid	DHS

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
Piperazine Estrone Sulfate	29080-16-8	solid	IARC known carcinogen
p-nitroaniline	100-01-6	solid	Mutagen
polychlorinated biphenyls	1336-36-3	liquid/solid	Teratogen
Polymerizable compounds (any)	various	various	Reactive
Potassium amide	17242-52-3	solid	Peroxide formation without concentration
Potassium chromate (VI)	7789-00-6	solid	IARC known carcinogen/Mutagen
Potassium cyanide	151-50-8	solid	Oral rat LD50: 6 mg/kg. Requires Cyanide antidote kit
Potassium dichromate (VI)	7778-50-9	solid	IARC known carcinogen/mutagen
Potassium metal	7440-09-7	solid	Peroxide formation without concentration
Potassium nitrate	7757-79-1	solid	DHS
Potassium perchlorate	7778-74-7	solid	DHS
Potassium permanganate	7722-64-7	solid	DHS
Potassium phosphide	20770-41-6	solid	DHS
PROPANE	74-98-6	gas	Extremely flammable
propargite	2312-35-8	liquid	Teratogen
PROPYLENE OXIDE	75-56-9	liquid	Extremely flammable/mutagen
PROPYLENE/PETROLANE PROPANE	115-07-1	pressurized liquid gas	Extremely flammable
Propylphosphonothioic dichloride	2524-01-8	solid	DHS
Propylphosphonyl difluoride	690-14-2	liquid	DHS
QL	57856-11-8	liquid	DHS
R-ALPINE-BORANE	73624-47-2	liquid	catches fire when exposed to air
R-ALPINE-HYDRIDE	64081-12-5	organometallic	reacts violently with water/peroxide former
Ricin	9009-86-3	solid	Select Agent
Sarin	107-44-8	liquid	DHS
Saxitoxin	35523-89-8	liquid	Select Agent
Selenium hexafluoride	7783-79-1	gas	DHS
Sesquimustard	3563-36-8	solid	DHS
Shigatoxin			Select Agent
Shock sensitive chemicals and explosives (any)	various	various	
Silicic acid, Beryllium salt	015191-85-2	solid	IARC known carcinogen
Silicon tetrachloride	10026-04-7	liquid	DHS
Silicon tetrafluoride	7783-61-1	gas	DHS
Silver cyanide	506-64-9	solid	Cyanide salt
Sodium	7440-23-5	solid	Alkali metal
Sodium amide (sodamide)	7782-92-5	solid	Peroxide formation without concentration

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
sodium arsenate	10048-95-0	solid	Teratogen
sodium arsenite	7784-46-5	solid	Teratogen
Sodium azide	26628-22-8	solid	DHS/IDLH 20 ppm
Sodium cacodylate	124-65-2	solid	IARC known carcinogen
Sodium cyanide	143-33-9	solid	DHS, Oral, rat: LD50 = 4.7 mg/kg;Requires Cyanide antidote k
Sodium dichromate (VI)	10588-01-9	solid	IARC known carcinogen
Sodium ethoxyacetylde	73506-39-5		Extreme reactive and unstable
sodium fluoride	7681-49-4	solid	Teratogen
Sodium phosphide	12058-85-4	solid	DHS
Soman	96-64-0	liquid	DHS
Staphylococcal enterotoxin	11100-45-1	solid	Select Agent
Stibine	7803-52-3	gas	DHS
Strontium chromate (VI)	7789-06-2	solid	IARC known carcinogen
Strontium phosphide	12504-16-4	solid	DHS
Strychnine Hemisulfate	60-41-3	solid	Rat oral LD50= 1mg/kg
Strychnine Hydrochloride	1421-86-9	solid	dog subqutaneous LD 50=460 UG/KG
Styrene	100-42-5	liquid	Peroxide former with auto polymerization
STYRENE OXIDE	96-09-3	liquid	Mutagen/Teratogen
Sulfur dioxide (anhydrous)	7446-09-5	gas	DHS
Sulfur mustard (Mustard gas (H))	505-60-2	liquid	DHS
Sulfur tetrafluoride	7783-60-0	gas	DHS
Sulfur trioxide	7446-11-9	liquid	IARC known carcinogen
Sulfuryl chloride	7791-25-5	liquid	DHS
T-2 toxin	21259-20-1	solid	Select Agent
Tabun	77-81-6	liquid	DHS
Tamoxifen	10540-29-1	solid	IARC known carcinogen
Tellurium hexafluoride	7783-80-4	gas	DHS
tert-Butyl isocyanate	1609-86-5	liquid	Rat inhalation LC 50= 0.06 MG/L
Tetrafluoroethylene	116-14-3	gas	Peroxide former with auto polymerization
Tetrahydrofuran	109-99-9	liquid	peroxide formation upon concentration
Tetrahydronaphthalene	119-64-2	liquid	peroxide formation upon concentration
TETRAHYDROPYRAN	142-68-7	liquid	Extremely flammable
TETRAMETHYLSILANE	75-76-3	liquid	Extremely flammable
Tetranitroaniline	53014-37-2	solid	DHS
Tetranitromethane	509-14-8	liquid	Rat inhalation LC 50= 18ppm-delayed methgb formation
Tetrodotoxin	4368-28-9	solid	Select Agent
Thiodiglycol	111-48-8	liquid	DHS
THIOLACETIC ACID	507-09-5	liquid	Extremely flammable

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
Thionyl chloride	7719-09-7	liquid	DHS
thiram	137-26-8	solid	Mutagen/Teratogen
Titanium tetrachloride	7550-45-0	liquid	DHS
Trinitrotoluene (TNT)	118-96-7	solid	DHS
toluene	108-88-3	liquid	Teratogen
Treosulphan	299-75-2		IARC known carcinogen
Triallylamine	102-70-5	liquid	Rabbit Skin LD50=400 UL/KG
TRICHLORFON	52-68-6	solid	Mutagen/Teratogen
TRICHLOROSILANE	10025-78-2	liquid	DHS, Extremely flammable
TRIFLUIROMETHYL IODIDE, 99%	2314-97-8	gas	Extremely flammable
Trifluoroacetyl chloride	354-32-5	gas	DHS
TRIMETHYLAMINE, 25% AQUEOUS SOLN	75-50-3	liquid	Extremely flammable
TRIMETHYLCHLOROSILANE	75-77-4	liquid	Extremely flammable
TRIMETHYLIODOSILANE	16029-98-4	liquid	Extremely flammable
Trinitroaniline	26952-42-1	liquid	DHS
Trinitroanisole	606-35-9	solid	DHS
Trinitrobenzene	99-35-4	solid	DHS
Trinitrobenzenesulfonic acid	2508-19-2	solid	DHS
Trinitrobenzoic acid	129-66-8	solid	DHS
Trinitrochlorobenzene	88-88-0	solid	DHS
Trinitrofluorenone	129-79-3	solid	DHS
Trinitro-meta-cresol	602-99-3	solid	DHS
Trinitronaphthalene	55810-17-8	solid	DHS
Trinitrophenetole	4732-14-3	solid	DHS
Trinitrophenol	88-89-1	solid	DHS
Trinitroresorcinol	82-71-3	solid	DHS
Tungsten hexafluoride	7783-82-6	gas	DHS
Uranyl compounds and non-regulated radioactives in natural materials	various	various	
URETHANE	51-79-6	solid	Mutagen/Teratogen
Valinomycin, Crystalline	2001-95-8	solid	Rabbit Skin LD50=5mg/KG
Vinyl acetate	108-05-4	liquid	Peroxide former with auto polymerization
Vinyl chloride	75-01-4	gas	IARC known carcinogen/Mutagen/Teratogen/Peroxide former
Vinyl ethers	109-93-3	liquid	peroxide formation upon concentration
Vinylacetylene	689-97-4	gas	Peroxide former with auto polymerization
Vinylidene chloride	75-35-4	liquid	Peroxide formation without concentration
Vinylpyridine	100-69-6, 100-43-6	liquid	Peroxide former with auto polymerization
VX	50782-69-9	liquid	DHS
Zinc chromate (VI)	13530-65-9	solid	IARC known carcinogen

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Zinc chromate (VI) hydroxide	15930-94-6	solid	IARC known carcinogen
Zinc cyanide	557-21-1	solid	Cyanide poisoning kits should be available in the lab

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