

## List of Hazardous Agents Requiring Reporting to University 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
2,3,7,8-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

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2-METHOXYPROPENE	116-11-0	liquid	Extremely flammable
2-METHYLBUTANE	78-78-4	liquid	Extremely flammable
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

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Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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
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

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Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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
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

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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
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
Compressed Air	various	gas	Physical hazard
Compressed CO2	various	gas	Physical hazard
Compressed Gas Misc	various	gas	Physical hazard
Compressed Helium	various	gas	Physical hazard
Compressed Hydrogen	various	gas	Physical hazard
Compressed Nitrogen	various	gas	Physical hazard

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Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
Compressed Oxygen	various	gas	Physical hazard
Conotoxins	115797-06-3	solid	Select Agent
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 compounds (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-Dibromo-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
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

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Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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
Diethylstilbestrol (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;
dimethoate	60-51-5	solid	Teratogen
Dimethyl Sulfate	77-78-1	liquid	Rat LC50=45 mg/m <sup>3</sup> , Mutagen/ 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
Dipenyldichlorosilane	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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Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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



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Guanidine nitrate	506-93-4	solid	NFPA class 4 oxidizer
Halothane	151-67-7	liquid	Teratogen
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
Isoflurane	26675-46-7	liquid	Teratogen
ISOPRENE	78-79-5	liquid	Extremely flammable
Isopropyl ether	108-20-3	liquid	Class 3 peroxide former
ISOPROPYLAMINE	75-31-0	liquid	Extremely flammable
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

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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
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

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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
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

## List of Hazardous Agents Requiring Reporting to University Environmental Health and Safety

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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
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
Penitrem A	12627-35-9	solid	Fungal toxin

## List of Hazardous Agents Requiring Reporting to University Environmental Health and Safety

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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/m <sup>3</sup>
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
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

## List of Hazardous Agents Requiring Reporting to University Environmental Health and Safety

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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
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 kit
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

## List of Hazardous Agents Requiring Reporting to University Environmental Health and Safety

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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 subcutaneous 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
Thionyl chloride	7719-09-7	liquid	DHS
thiram	137-26-8	solid	Mutagen/Teratogen
Titanium tetrachloride	7550-45-0	liquid	DHS
toluene	108-88-3	liquid	Teratogen
Treosulphan	299-75-2		IARC known carcinogen

## List of Hazardous Agents Requiring Reporting to University Environmental Health and Safety

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
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
TRIFLUOROMETHYL 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
trimethylsilyldiazomethane	18107-18-1	liquid	Fatal if inhaled or absorbed
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
Trinitrotoluene (TNT)	118-96-7	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



## List of Hazardous Agents Requiring Reporting to University Environmental Health and Safety

Chemical Name	CAS Number	State	EHS Reporting Requirement Statement
Zinc chromate (VI)	13530-65-9	solid	IARC known carcinogen
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