THE UNIVERSITY of NEW ORLEANS
OFFICE OF RESEARCH

P-Listed Chemicals & Hazardous Wastes

The Environmental Protection Agency (EPA) has identified a number of chemicals on the "P-List" that present an especially acute hazard when disposed of as hazardous waste. Because they are extremely dangerous, there are more stringent requirements when disposing of P-Listed hazardous waste.

►►► **Volume Limit:** When collecting P-Listed hazardous waste (listed below) in the lab, do not ever accumulate more than 1 quart (~1 L) at any given time.

►►► **Empty Containers:** When you have empty containers that previously held a P-Listed chemical, these must also be disposed of as hazardous waste. Bring these empty containers to the Hazardous Waste Room. Do not wash or re-use these containers. [Review the UNO Regulated Waste Guidelines for information on proper hazardous waste disposal.]

►►► **Contamination:** Disposable materials that become contaminated with p-listed chemicals (ex. Gloves, weighing boats, paper towels, etc.) must also be disposed of as hazardous waste. Non-disposable materials must be triple-rinsed to remove contamination. **The rinsate must be collected as hazardous waste.** Materials contaminated with P-Listed chemicals may not be washed or re-used until they have been triple-rinsed. [Review the UNO Regulated Waste Guidelines for information on proper hazardous waste disposal.]

Things to Remember!

- **Label the waste as hazardous waste in accordance with the UNO Regulated Waste Guidelines.** Just like all other hazardous wastes, P-listed wastes must be labeled with the completed UNO Hazardous Waste Label and the applicable GHS Pictograms.

- **Use disposable materials whenever possible.** Triple-rinsing containers that held P-Listed chemicals creates a much larger volume of hazardous waste for disposal, which creates a greater risk and is more expensive. Consider using disposable containers to prevent generating excess waste.

- **Collect contaminated materials in a container.** This can be a 5-gallon bucket or other plastic container that has a secure lid. Gloves, weigh boats, paper towels, and other materials that are contaminated with P-Listed chemicals must be collected in this container for disposal. Label this container as you would any other hazardous waste, according to the UNO Regulated Waste Guidelines.

Most Common P-Listed Chemicals

Chemical Name	CAS #
Acrolein	107-02-8
Allyl Alcohol	107-18-6
Arsenic Compounds	Varies
Inorganic Cyanide Salts	Varies
Carbon Disulfide	75-15-0
Cyanogen & Cyanogen Chloride	460-19-5, 506-77-4
2,4-Dinitrophenol	51-28-5
Epinephrine	51-43-4
Nitrous & Nitric Oxides	10102-44-0, 10102-43-9
Osmium Tetroxide	20816-12-0
Sodium Azide	26628-22-8

Note: A complete list of P-Listed chemicals is found on the next page.

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If you have any questions about the use or disposal of P-Listed chemicals, contact the UNO Lab Safety Officer at labsafety@uno.edu

Complete List of P-Listed Chemicals

Acetaldehyde, chloro
Acetamide, N-(aminothioxomethyl)-
Acetamide, 2-fluoro
Acetic acid, fluoro-, sodium salt
1-Acetyl-2-thiourea
Acrolein
Aldicarb
Aldicarb sulfone.
Aldrin
Allyl alcohol
Aluminum phosphide (R,T)
5-(Aminomethyl)-3-isoxazolol
4-Aminopyridine
Ammonium picrate (R)
Ammonium vanadate
Argentate(1-), bis(cyano-C)-, potassium
Arsenic acid H3AsO4
Arsenic oxide As2O3
Arsenic oxide As2O5
Arsenic pentoxide
Arsenic trioxide
Arsine, diethyl
Arsonous dichloride, phenyl
Aziridine
Aziridine, 2-methyl
Barium cyanide
Benzenamine, 4-chloro
Benzenamine, 4-nitro
Benzene, (chloromethyl)-
1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-, (R)-
Benzeneethanamine, alpha, alpha-dimethyl-Benzenethiol
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.
Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro- 1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1).
2H-1-Benzopyran-2-one, 4-hydroxy-3- (3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%
Benzyl chloride
Beryllium powder
Bromoacetone
Brucine
2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[(methylamino)carbonyl] oxime
Calcium cyanide
Calcium cyanide Ca(CN)2Carbamicacid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester.
Carbamic acid, dimethyl-, 1-[(dimethylamino)carbonyl]- 5-methyl-1H-pyrazol3-yl ester.
Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H- pyrazol-5-yl ester.
Carbamic acid, methyl-, 3-methylphenyl ester.
Carbofuran.
Carbon disulfide
Carbonic dichloride
Carbosulfan.
Chloroacetaldehyde
p-Chloroaniline
1-(o-Chlorophenyl)thiourea
3-Chloropropionitrile
Copper cyanide
Copper cyanide Cu(CN)
m-Cumenyl methylcarbamate.
Cyanides (soluble cyanide salts), not otherwise specified
Cyanogen
Cyanogen chloride
Cyanogen chloride (CN)Cl
2-Cyclohexyl-4,6-dinitrophenol
Dichloromethyl ether
Dichlorophenylarsine
Dieldrin
Diethylarsine
Diethyl-p-nitrophenyl phosphate
O,O-Diethyl O-pyrazinyl phosphorothioate
Diisopropylfluorophosphate (DFP)
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro1,4,4a,5,8,8a, hexahydro-,(1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta)-
2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta, 7aalpha)-
2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha)-, & metabolites
Dimethoate
alpha,alpha-Dimethylphenethylamine
Dimetilan.
4,6-Dinitro-o-cresol, & salts
2,4-Dinitrophenol
Dinoseb
Diphosphoramide, octamethylDiphosphoric acid, tetraethyl ester
Disulfoton
Dithiobiuret
1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O- [(methylamino)-carbonyl]oxime.
Endosulfan
Endothall
Endrin
Endrin, & metabolites
Epinephrine
Ethanedinitrile
Ethanimidothioic acid, 2-(dimethylamino)-N-[[(methylamino) carbonyl]oxy]-2-oxo-, methyl ester.
Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester
Ethyl cyanide
Ethyleneimine
Famphur
Fluorine
Fluoroacetamide
Fluoroacetic acid, sodium salt
Formetanate hydrochloride.
Formparanate.
Fulminic acid, mercury(2+) salt (R,T)

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Heptachlor
Hexaethyl tetraphosphate
Hydrazinecarbothioamide
Hydrazine, methylHydrocyanic acid
Hydrogen cyanide
Hydrogen phosphide
Isodrin
Isolan.
3-Isopropylphenyl N-methylcarbamate.
3(2H)-Isoxazolone, 5-(aminomethyl)-
Manganese, bis(dimethylcarbamodithioato-S,S')-,
Manganese dimethyldithiocarbamate.
Mercury, (acetato-O)phenylMercury
fulminate (R,T)
Methanamine, N-methyl-N-nitrosoMethane, isocyanatoMethane, oxybis[chloroMethane, tetranitro- (R)
Methanethiol, trichloroMethanimidamide, N,N-dimethyl-N'-[3- [[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride.
Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydroMethiocarb.
Methomyl
Methyl hydrazine
Methyl isocyanate
2-Methyllactonitrile
Methyl parathion
Metolcarb.
Mexacarbate.
alpha-Naphthylthiourea
Nickel carbonyl
Nickel carbonyl Ni(CO)4, (T-4)-
Nickel cyanide
Nickel cyanide Ni(CN)2
Nicotine, & salts
Nitric oxide
p-Nitroaniline
Nitrogen dioxide
Nitrogen oxide NO
Nitrogen oxide NO2
Nitroglycerine (R)
N-Nitrosodimethylamine
N-Nitrosomethylvinylamine
Octamethylpyrophosphoramide
Osmium oxide OsO4, (T-4)-
Osmium tetroxide
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
Oxamyl.
Parathion
Phenol, 2-cyclohexyl-4,6-dinitroPhenol, 2,4-dinitroPhenol, 2-methyl-4,6-dinitro-, & salts
Phenol, 2-(1-methylpropyl)-4,6-dinitroPhenol, 2,4,6-trinitro-, ammonium salt (R)
Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester).
Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate
Phenol, 3-(1-methylethyl)-, methyl carbamate.
Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate.
Phenylmercury acetate
Phenylthiourea
Phorate
Phosgene
Phosphine
Phosphoric acid, diethyl 4-nitrophenyl ester
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester
Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester
Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
Phosphorofluoridic acid, bis(1-methylethyl) ester
Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester
Phosphorothioic acid, O,O-diethyl Opyrazinyl ester
Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester
Physostigmine.
Physostigmine salicylate.
Plumbane, tetraethylPotassium cyanide
Potassium cyanide K(CN)
Potassium silver cyanide
Promecarb
Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime
Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime.
Propanenitrile
Propanenitrile, 3-chloroPropanenitrile, 2-hydroxy-2-methyl1,2,3-Propanetriol, trinitrate (R)
2-Propanone, 1-bromoPropargyl alcohol
2-Propenal
2-Propen-1-ol
1,2-Propylenimine
2-Propyn-1-ol
4-Pyridinamine
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts
Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8ahexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-.
Selenious acid, dithallium(1+) salt
Selenourea
Silver cyanide
Silver cyanide Ag(CN)
Sodium azide
Sodium cyanide
Sodium cyanide Na(CN)
Strychnidin-10-one, & salts
Strychnidin-10-one, 2,3-dimethoxyStrychnine, & salts
Sulfuric acid, dithallium(1+) salt
Tetraethyldithiopyrophosphate
Tetraethyl lead
Tetraethyl pyrophosphate
Tetranitromethane (R)
Tetraphosphoric acid, hexaethyl ester
Thallic oxide
Thallium oxide Tl2O3
Thallium(I) selenite
Thallium(I) sulfate
Thiodiphosphoric acid, tetraethyl ester
Thiofanox
Thioimidodicarbonic diamide [(H2N)C(S)]2NH
Thiophenol
Thiosemicarbazide
Thiourea, (2-chlorophenyl)-
Thiourea, 1-naphthalenylThiourea, phenylTirpate.
Toxaphene
Trichloromethanethiol
Vanadic acid, ammonium salt
Vanadium oxide V2O5
Vanadium pentoxide
Vinylamine, N-methyl-N-nitrosoWarfarin, & salts, when present at concentrations greater than 0.3%
Zinc, bis(dimethylcarbamodithioatoS,S')-,
Zinc cyanide
Zinc cyanide Zn(CN)2
Zinc phosphide Zn3P2, when present at concentrations greater than 10% (R,T)
Ziram.