

## P-Listed Hazardous Wastes

The Environmental Protection Agency (EPA) has identified a number of chemicals on the EPA "P-list" that present an especially acute hazard when disposed of as hazardous waste. Because of their acute hazards, there are more stringent requirements when disposing of these wastes:

- ▶ **Container size:** When collecting p-listed chemicals as waste, the volume of the hazardous waste container must not exceed one quart (approximately one liter).
- ▶ **Empty containers:** Empty containers that held p-listed chemicals must also be disposed of as hazardous waste. They are not allowed to be washed or re-used.
- ▶ **Contaminated materials:** Disposable materials that become contaminated with p-listed chemicals (e.g. gloves, weighing boats, etc.) must also be disposed of as hazardous waste. Non-disposable materials must be "triple-rinsed", or rinsed three times to remove the contamination. This chemical containing water 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.

### Remember:

- **Label the waste as hazardous waste.** Just like all other hazardous wastes, p-listed wastes must be labeled with the words "hazardous waste", the complete chemical name, and the associated hazard characteristics (e.g., ignitable, corrosive, toxic, or reactive).
- **Use disposable materials whenever possible.** Triple-rinsing non-disposable material generates a lot of waste, which can be difficult to dispose of safely. Consider using disposable containers to prevent excess waste generation.
- **Collect contaminated materials in a plastic bag.** Gloves, weigh boats, paper towel, etc. that is contaminated with p-listed

wastes can be collected in a closeable bag or other container labeled with an appropriate hazardous waste label. Be sure the volume of the container does not exceed one quart!

If you have questions concerning the use of p-listed chemicals at SFASU, contact your lab coordinator or Environmental Health, Safety, and Risk Management.

Most common p-listed wastes	
Chemical	CAS number
Acrolein	107-02-8
Allyl alcohol	107-18-6
Arsenic compounds	Varies
Inorganic cyanide salts	Varies
Carbon disulfide	75-15-0
Cyanogen and Cyanogen Chloride	460-19-5, 506-77-4
2,4-Dinitrophenol	51-28-5
Epinephrine	51-43-4
Nitrous and Nitric oxides	10102-44-0, 10102-43-9
Osmium tetroxide	20816-12-0
Note: A complete list of P-listed wastes can be found on the reverse side of this handout.	

**Environmental Health, Safety,  
and Risk Management**  
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# Complete list of “p-listed” chemicals

Acetaldehyde, chloro-	Diethyl-p-nitrophenyl phosphate	Methanimidamide, N,N-dimethyl-N'-[2-	Propanal, 2-methyl-2-(methylthio)-,
Acetamide, N-(aminothioxomethyl)-	O,O-Diethyl O-pyrazinyl	methyl-4-	O-[(methylamino)carbonyl]oxime
Acetamide, 2-fluoro-	phosphorothioate	[[[(methylamino)carbonyl]oxy]phenyl]-	Propanal, 2-methyl-2-(methyl-sulfonyl)-,
Acetic acid, fluoro-, sodium salt	Diisopropylfluorophosphate (DFP)	6,9-Methano-2,4,3-benzodioxathiepin,	O-[(methylamino)carbonyl] oxime.
1-Acetyl-2-thiourea	1,4,5,8-Dimethanonaphthalene,	6,7,8,9,10,10-	Propanenitrile
Acrolein	1,2,3,4,10,10-hexa- chloro-	hexachloro-1,5,5a,6,9,9a-hexahydro-,	Propanenitrile, 3-chloro-
Aldicarb	1,4,4a,5,8,8a,-hexahydro-,	3-oxide	Propanenitrile, 2-hydroxy-2-methyl-
Aldicarb sulfone.	(1alpha,4alpha,4abeta,5alpha,8alpha,8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-	1,2,3-Propanetriol, trinitrate (R)
Aldrin	abeta)-	heptachloro-	2-Propanone, 1-bromo-
Allyl alcohol	1,4,5,8-Dimethanonaphthalene,	3a,4,7,7a-tetrahydro-	Propargyl alcohol
Aluminum phosphide (R,T)	1,2,3,4,10,10-hexa- chloro-	Methiocarb.	2-Propenal
5-(Aminomethyl)-3-isoxazolol	1,4,4a,5,8,8a-hexahydro-,	Methomyl	2-Propen-1-ol
4-Aminopyridine	(1alpha,4alpha,4abeta,5beta,8beta,8ab	Methyl hydrazine	1,2-Propylenimine
Ammonium picrate (R)	eta)-	Methyl isocyanate	2-Propyn-1-ol
Ammonium vanadate	2,7:3,6-Dimethanonaphth[2,3-b]oxirene,	2-Methylactonitrile	4-Pyridinamine
Argentate(1-), bis(cyano-C)-, potassium	3,4,5,6,9,9-hexachloro-	Methyl parathion	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,
Arsenic acid H3AsO4	1a,2,2a,3,6,6a,7,7a-octahydro-,	Metolcarb.	(S)-, & salts
Arsenic oxide As2O3	(1aalpha,2beta,2aalpha,3beta,6beta,6a	Mexacarbate.	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-
Arsenic oxide As2O5	alpha,7beta, 7aalpha)-	alpha-Naphthylthiourea	hexahydro-1,3a,8-trimethyl-,
Arsenic pentoxide	2,7:3,6-Dimethanonaphth [2,3-	Nickel carbonyl	methylcarbamate (ester), (3aS-cis)-.
Arsenic trioxide	b]oxirene, 3,4,5,6,9,9-hexachloro-	Nickel carbonyl Ni(CO) <sub>4</sub> , (T-4)-	Selenious acid, dithallium(1+) salt
Arsine, diethyl-	1a,2,2a,3,6,6a,7,7a-octahydro-,	Nickel cyanide	Selenourea
Arsonous dichloride, phenyl-	(1aalpha,2beta,2abeta,3alpha,6alpha,6	Nickel cyanide Ni(CN) <sub>2</sub>	Silver cyanide
Aziridine	abeta,7beta, 7aalpha)-, & metabolites	Nicotine, & salts	Silver cyanide Ag(CN)
Aziridine, 2-methyl-	Dimethoate	Nitric oxide	Sodium azide
Barium cyanide	alpha,alpha-Dimethylphenethylamine	p-Nitroaniline	Sodium cyanide
Benzenamine, 4-chloro-	Dimetilan.	Nitrogen dioxide	Sodium cyanide Na(CN)
Benzenamine, 4-nitro-	4,6-Dinitro-o-cresol, & salts	Nitrogen oxide NO	Strychnidin-10-one, & salts
Benzene, (chloromethyl)-	2,4-Dinitrophenol	Nitrogen oxide NO <sub>2</sub>	Strychnidin-10-one, 2,3-dimethoxy-
1,2-Benzenediol, 4-[1-hydroxy-2-	Dinoseb	Nitroglycerine (R)	Strychnine, & salts
(methylamino)ethyl]-, (R)-	Diphosphoramide, octamethyl-	N-Nitrosodimethylamine	Sulfuric acid, dithallium(1+) salt
Benzeneethanamine, alpha,alpha-	Diphosphoric acid, tetraethyl ester	N-Nitrosomethylvinylamine	Tetraethylthiopyrophosphate
dimethyl-	Dissulfoton	Octamethylpyrophosphoramidate	Tetraethyl lead
Benzenethiol	Dithiobiuret	Osmium oxide OsO <sub>4</sub> , (T-4)-	Tetraethyl pyrophosphate
7-Benzofuranol, 2,3-dihydro-2,2-	1,3-Dithiolane-2-carboxaldehyde, 2,4-	Osmium tetroxide	Tetranitromethane (R)
dimethyl-, methylcarbamate.	dimethyl-, O- ((methylamino)-	7-Oxabicyclo[2.2.1]heptane-2,3-	Tetraphosphoric acid, hexaethyl ester
Benzoic acid, 2-hydroxy-, compd. with	carbonyl]oxime.	dicarboxylic acid	Thallic acid
(3aS-cis)-1,2,3,3a,8,8a-hexahydro-	Endosulfan	Oxamyl.	Thallium oxide Tl <sub>2</sub> O <sub>3</sub>
1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl	Endothall	Parathion	Thallium(I) selenite
methylcarbamate ester (1:1).	Endrin	Phenol, 2-cyclohexyl-4,6-dinitro-	Thallium(I) sulfate
2H-1-Benzopyran-2-one, 4-hydroxy-3-	Endrin, & metabolites	Phenol, 2,4-dinitro-	Thiodiphosphoric acid, tetraethyl ester
(3-oxo-1-phenylbutyl)-, & salts, when	Epinephrine	Phenol, 2-methyl-4,6-dinitro-, & salts	Thiofanox
present at concentrations greater than	Ethanedinitrile	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	Thioimidodicarbonic diamide
0.3%	Ethanimidothioic acid, 2-	Phenol, 2,4,6-trinitro-, ammonium salt	[(H <sub>2</sub> N)C(S)] <sub>2</sub> NH
Benzyl chloride	(dimethylamino)-N-[[[(methylamino)	(R)	Thiophenol
Beryllium powder	carbonyl]oxy]-2-oxo-, methyl ester.	Phenol, 4-(dimethylamino)-3,5-	Thiosemicarbazide
Bromoacetone	Ethanimidothioic acid,	dimethyl-, methylcarbamate (ester).	Thiourea, (2-chlorophenyl)-
Brucine	N-[[[(methylamino)carbonyl]oxy]-,	Phenol, (3,5-dimethyl-4-(methylthio)-,	Thiourea, 1-naphthalenyl-
2-Butanone, 3,3-dimethyl-1-	methyl ester	methylcarbamate	Thiourea, phenyl-
(methylthio)-,	Ethyl cyanide	Phenol, 3-(1-methylethyl)-, methyl	Tirpate.
O-[(methylamino)carbonyl] oxime	Ethyleneimine	carbamate.	Toxaphene
Calcium cyanide	Famphur	Phenol, 3-methyl-5-(1-methylethyl)-,	Trichloromethanethiol
Calcium cyanide Ca(CN) <sub>2</sub> Carbamic	Fluorine	methyl carbamate.	Vanadic acid, ammonium salt
acid, [(dibutylamino)- thio]methyl-, 2,3-	Fluoroacetamide	Phenylmercury acetate	Vanadium oxide V <sub>2</sub> O <sub>5</sub>
dihydro-2,2-dimethyl- 7-benzofuranyl	Fluoroacetic acid, sodium salt	Phenylthiourea	Vanadium pentoxide
ester.	Formetanate hydrochloride.	Phorate	Vinylamine, N-methyl-N-nitroso-
Carbamic acid, dimethyl-, 1-[(dimethyl-	Formparanate.	Phosgene	Warfarin, & salts, when present at
amino)carbonyl]- 5-methyl-1H- pyrazol-	Fulminic acid, mercury(2+) salt (R,T)	Phosphine	concentrations greater than 0.3%
3-yl ester.	Heptachlor	Phosphoric acid, diethyl 4-nitrophenyl	Zinc, bis(dimethylcarbamdithioato-
Carbamic acid, dimethyl-, 3-methyl-1-	Hexaethyl tetraphosphate	ester	S,S)-,
(1-methylethyl)-1H- pyrazol-5-yl ester.	Hydrazinecarbothioamide	Phosphorodithioic acid, O,O-diethyl	Zinc cyanide
Carbamic acid, methyl-, 3-methylphenyl	Hydrazine, methyl-	S-[2-(ethylthio)ethyl] ester	Zinc cyanide Zn(CN) <sub>2</sub>
ester.	Hydrocyanic acid	Phosphorodithioic acid, O,O-diethyl	Zinc phosphide Zn <sub>3</sub> P <sub>2</sub> , when present at
Carbofuran.	Hydrogen cyanide	S-[(ethylthio)methyl] ester	concentrations greater than 10% (R,T)
Carbon disulfide	Hydrogen phosphide	Phosphorofluoric acid, bis(1-	Ziram.
Carbonic dichloride	Isodrin.	methylethyl) ester	
Carbosulfan.	Isolan.	Phosphorothioic acid, O,O-diethyl O-(4-	
Chloroacetaldehyde	3-Isopropylphenyl N-methylcarbamate.	nitrophenyl) ester	
p-Chloroaniline	3(2H)-Isoxazolone, 5-(aminomethyl)-	Phosphorothioic acid, O,O-diethyl O-	
1-(o-Chlorophenyl)thiourea	Manganese,	pyrazinyl ester	
3-Chloropropionitrile	bis(dimethylcarbamdithioato-S,S)-,	Phosphorothioic acid, O,O-diethyl O-	
Copper cyanide	Manganese dimethylidithiocarbamate.	pyrazinyl ester	
Copper cyanide Cu(CN)	Mercury, (acetato-O)phenyl-	Phosphorothioic acid,	
m-Cumenyl methylcarbamate.	Mercury fulminate (R,T)	O-[4-[(dimethylamino)sulfonyl]phenyl]	
Cyanides (soluble cyanide salts), not	Methanamine, N-methyl-N-nitroso-	O,O-dimethyl ester	
otherwise specified	Methane, isocyanato-	Phosphorothioic acid, O,O,-dimethyl O-	
Cyanogen	Methane, oxybis(chloro-	(4-nitrophenyl) ester	
Cyanogen chloride	Methane, tetranitro- (R)	Physostigmine.	
Cyanogen chloride (CN)Cl	Methanethiol, trichloro-	Physostigmine salicylate.	
2-Cyclohexyl-4,6-dinitrophenol	Methanimidamide, N,N-dimethyl-N'-[3-	Plumbane, tetraethyl-	
Dichloromethyl ether	[[[(methylamino)-carbonyl]oxy]phenyl]-,	Potassium cyanide	
Dichlorophenylarsine	monohydrochloride.	Potassium cyanide K(CN)	
Dieldrin		Potassium silver cyanide	
Diethylarsine		Promecarb	