

Standard Operating Procedures (SOPs) for Particularly Hazardous Substances (PHS) are listed below. These include "select carcinogens," reproductive toxins and substances which have a high degree of acute toxicity. Please fill in sections 1 and 10 with information specific to your lab, and store the SOPs in a designated area known to all lab personnel.

Chemical Name	CAS No
1,2-Dibromo-3-Chloropropane	96-12-8
1,3-Butadiene	106-99-0
1-2-Dichloroethane	107-06-2
1-Methyl-2-Pyrrolidinone	872-50-4
2-Acetylaminofluorene	53-96-3
3,3'-Dichlorobenzidine (and its salts)	91-94-1
4,4'-Methylenedianiline	101-77-9
4-Aminodiphenyl	92-67-1
4-Dimethylaminoazobenzene	60-11-7
4-Nitrobiphenyl	92-93-3
Acetyl Chloride	75-36-5
Acrylamide	79-06-1
Acrylonitrile	107-13-1
alpha-Naphthylamine	134-32-7
Arsenic (Inorganic)	7440-38-2
Benzene	71-43-2
Benzidine	92-87-5
beta-Mercaptoethanol	60-24-2
beta-Naphthylamine	91-59-8
beta-Propiolactone	57-57-8
bis-Chloromethyl Ether	542-88-1
Boron Trifluoride in Methanol	373-57-9
Cadmium Compounds	7440-43-9 (metal)
Chloroform	67-66-3
Chromic Acid and Chromates	1333-82-0
Coke Oven Emissions	N/A
Copper(II) sulfate pentahydrate	7758-99-8
Cotton Dust	N/A
m-Cresol	108-39-4
o-Cresol	95-48-7
p-Cresol	106-44-5
Cyclosporine	59865-13-3
Diethyl Ether	60-29-7
Dimethylacetamide	127-19-5
Dimethylformamide	68-12-2
Ethidium Bromide	1239-45-8
Ethylene Oxide	75-21-8

Ethyleneimine	151-56-4
Formaldehyde	50-00-0
Formalin (37% Formaldehyde)	50-00-0
Formamide	75-12-7
Gold Cyanide	506-65-0
Hydrofluoric Acid	7664-39-3
Lead Compounds	7439-92-1
Lithium	7439-93-2
Elemental Mercury & Mercuric Compounds	7439-97-6
Methyl Chloromethyl Ether	107-30-2
Methyl Ethyl Ketone	78-93-3
Methylene Chloride (Dichloromethane)	75-09-2
n-Butyllithium	109-72-8
Nickel (II) Nitrate Hexahydrate	13478-00-7
Nickel(II) Sulfate Hexahydrate	10101-97-0
Nitric Acid	7697-37-2
N-Nitrosodimethylamine	62-75-9
Octane	111-65-9
Osmium Tetroxide	20816-12-0
Paclitaxel	33069-62-4
Pentachlorophenol	87-86-5
Phenol	108-95-2
Phenyl Isocyanate	103-71-9
Picric Acid	88-89-1
Picric Acid Storage Sign	88-89-1
Potassium Cyanide	151-50-8
Potassium Permanganate	7722-64-7
Praseodymium	7440-10-0
Quinoline	91-22-5
Rapamycin	53123-88-9
Red Fuming Nitric Acid	7697-37-2
Silver Cyanide	506-64-9
Silver Nitrate	7761-88-8
Sodium Azide	26628-22-8
Sodium Borohydride	16940-66-2
Sodium Cyanoborohydride	25895-60-7
Sodium Hydride	7646-69-7
Sodium Selenite	10102-18-8
Styrene	100-42-5
Tamoxifen	10540-29-1
Tetrahydrofuran	109-99-9
Titanium (IV) Chloride	7550-45-0
Toluene	108-88-3
Vanadium Pentoxide	1314-62-1

Vinyl Chloride	75-01-4
o-Xylene (1,2-Dimethylbenzene)	95-47-6
m-Xylene (1,3-Dimethylbenzene)	108-38-3
p-Xylene (1,4-Dimethylbenzene)	106-42-3

This is not a complete list. If you believe you are working with a PHS that is not listed, please create an SOP using the SOP Template and notify the Lab Safety Specialist.

[Blank SOP Template](#)

Contact Lab Safety Specialist:

Andrea Conner

anconne@clemsn.edu