

SCHEDULE 1 POISONS

A	Aldicarb Aluminium phosphide Arsenic and its compounds	N	Nicotine and its salts
B	Barium salts (except barium sulfate) Bromomethane	O	Oxamyl
C	Carbofuran Chloropicrin Cycloheximide	P	Paraquat and its salts Phosphorus compounds – the following: Azinphos-methyl Chlorfenvinphos Demephion Demeton-S-methyl Demeton-S-methyl sulfone Dialifos Dichlorvos Dioxathion Disulfoton Fonofos Mecarbam Mephosfolan Methidathion Mevinphos Phorate Phosphamidon Pirimiphos-ethyl Quinalphos Thiometon Thionazin Triazophos Vamidothion
D	Dinitrocresols and metal derivatives Dinoseb and metal derivatives Dinoterb Drazoxolon and its salts		
E	Endosulfan Endothal and its salts Endrin Fentin and its compounds Fluoroacetic acid and its salts; fluoroacetamide		
H	Hydrogen cyanide Metal cyanides other than ferrocyanides and ferricyanides		
L	Lead compounds		
M	Mercuric chloride Mercuric iodide Mercuric nitrate Potassium mercuric iodides Organomercury compounds Methomyl	S	Strychnine and its salts
		T	Thallium salts Thiofanox
		Z	Zinc phosphide

Short List of Highly Toxic Chemicals for Hazard Class Designation

(taken from <http://www.dehs.umn.edu/safety/shortlist.html>)

This list of chemicals has been developed by the Department of Environmental Health and Safety for use in determining the appropriate hazard class for chemical laboratories. Although other materials meet the criteria for being listed here, they are not commonly found in University laboratories. Consideration of the materials on this list should lead to the appropriate designation.

ACETONE CYANOHYDRIN (DOT)
ACETONYLBENZYL)-4-HYDROXYCOUMARIN, 3-(ALPHA-
ACROLEIN, INHIBITED (DOT)
ACTIDIONE
ACTINOMYCIN D
AFLATOXINS
ALDRIN (DOT)
ALLYL BROMIDE (DOT)
ALLYL ISOTHIOCYANATE
ALLYLIDENE DIACETATE
ALUMINUM PHOSPHIDE (DOT)
AMINO PYRIDINE, 2-
AMINOPTERIN
AMINOPYRIDINE, 4-
ANTU (NAPHTHYLTHIOUREA, ALPHA-)
ARSENIC ACID, SODIUM SALT (SODIUM ARSENATE)
ARSENIC ACID, SOLUTION
ARSENIC IODIDE
ARSENIC PENTASULFIDE
ARSENIC PENTOXIDE (DOT)
ARSENIC TRICHLORIDE
ARSENIC TRIOXIDE
ARSENIC TRISULFIDE
ARSENIOUS ACID (ARSENIC TRIOXIDE, SOLID)
ARSENIOUS OXIDE (ARSENIC TRIOXIDE, SOLID)
ARSINE
AZINPHOS-METHYL
AZIRIDINE

BAY 25141
BENZEDRINE
BENZENETHIOL (PHENYL MERCAPTAN) (DOT)
BIDRIN
BORON TRIFLUORIDE
BUSULFAN
BUTANEDIOL DIMETHYLSULFONATE, 1,4-
BUTYL-4,6-DINITROPHENOL, 2-SEC-

CALCIUM ARSENATE, SOLID
CALCIUM CYANIDE
CARBON OXYFLUORIDE
CARBONYL CHLORIDE
CARBONYL FLUORIDE
CARBONYL SULFIDE
CHLORINATED DIPHENYL OXIDE
CHLORINE (DOT)
CHLORINE PENTAFLUORIDE
CHLORINE TRIFLUORIDE
CISPLATIN
CYANOGEN
CYANOGEN CHLORIDE
CYCLOHEXIMIDE
CYCLOPHOSPHAMIDE

DASANIT
DAUNOMYCIN
DDVP (DICHLORVOS)
DEMETON, MIXED ISOMERS
DICHLORO-N-METHYLDIETHYLAMINE, 2,2'-
DICHLORVOS
DICROTOPHOS
DIELDRIN (DOT)

DIETHYL S-[2-(ETHYLTHIO)ETHYL]PHOSPHORODITHIOATE, O-DIETHYLHYDRAZINE, 1,2-DIISOPROPYL FLUOROPHOSPHATE
DIMETHYL MERCURY
DINITRO-O-CRESOL, 4,6-DINITROPHENOL, 2, 4-DINOSEB
DIOXATHION
DISULFOTON
DNBP

ENDOSULFAN
ENDRIN
EPN
ETHION
ETHYLENEIMINE (DOT)

FENAMIPHOS
FENSULFOTHION
FLUOROACETIC ACID, SODIUM SALT
FONOFOS

GLYCOLONITRILE
GUTHION

HEPTACHLOR
HEPTACHLOR EPOXIDE
HYDROCYANIC ACID, LIQUIFIED
HYDROGEN CHLORIDE GAS
HYDROGEN CYANIDE
HYDROGEN FLUORIDE GAS
HYDROXY-3(3-OXO-1-PHENYLBUTYL)-2H-1-BENZOPYRAN-2-ONE

IRON PENTACARBONYL

LANNATE

MELPHALAN
MERCURIC CHLORIDE
METHYL CYCLOPENTADIENYL MANGANESE TRICARBONYL, 2-METHYL HYDRAZINE
METHYL IODIDE
METHYL MERCURY
METHYL PARATHION, LIQUID
METHYL VINYL KETONE, INHIBITED (DOT)
METHYL-BIS(2-CHLOROETHYL) AMINE (NITROGEN MUSTARD), N-METHYL-N-NITROSO-METHANAMINE, N-METHYLAZIRIDINE, 2-(PROPYLENEIMINE, INHIBITED)
METHYLHYDRAZINE (DOT)
METHYLPROPYL)-4,6-DINITRO-PHENOL, 2-(1-MEVINPHOS
MITOMYCIN C
MONOCROTOPHOS
MYLERAN

NAPHTHYLTHIOUREA, ALPHA-NITROGEN MUSTARD
NITROSODIMETHYLAMINE, N-

PARAQUAT, RESPIRABLE FRACTION
PERFLUOROISOBUTYLENE
PHENYL MERCAPTAN (DOT)
PHENYLPHOSPHINE
PHORATE
PHOSDRIN (MEVINPHOS)
PHOSGENE
PHOSHONOTHIOIC ACID, O-ETHYL O-(P-
NITROPHENYL)ESTER,
PHOSPHINE
PHOSPHORUS PENTAFLUORIDE
POTASSIUM CYANIDE, SOLID (DOT)
PREMERGE
PROPANENITRILE
PROPIONITRILE
PROPYLENEIMINE, INHIBITED (DOT)

SODIUM AZIDE
SODIUM CYANIDE, SOLID (DOT)
STRYCHNINE, SOLID (DOT)

SULFOTEP
SYSTOX

TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8-
(TCDD)
TETRAETHYL DITHIOPYROPHOSPHATE (TEDP)
TETRAETHYL LEAD, LIQUID
TETRAETHYLPYROPHOSPHATE, LIQUID
THIODAN (ENDOSULFAN)
THIOPHENOL (PHENYL MERCAPTAN) (DOT)
TRIETHYLENETHIOPHORAMIDE, N,N',N''-
TRIMETHYLENETRINITRAMINE

URACIL MUSTARD

VANADIUM PENTOXIDE
VAPATONE (TETRAETHYLPYROPHOSPHATE,
LIQUID)

WARFARIN

Known and Suspected Carcinogens

(taken from <http://physchem.ox.ac.uk/MSDS/carcinogens.html>)

The following chemicals are known or suspected carcinogens. This list has been compiled from a number of sources, but it is not (and cannot be) comprehensive.

Therefore, the absence of a chemical from this list does not mean that it cannot have carcinogenic properties. Neither does the presence of a chemical in the list indicate that it is a proven carcinogen.

However, users should treat the materials listed with the caution due to suspected carcinogens, and gather as much safety data as possible before starting work. Restrictions apply to the use of some of these chemicals in the U.K. We have done our best to ensure the data below is as accurate as possible, but cannot accept responsibility for its use or mis-use.

A	B
A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	Benz[a]anthracene
Acetaldehyde	Benzene
Acetamide	Benzidine [and its salts]
Acetochlor	Benzidine-based dyes
2-Acetylaminofluorene	Benzo[b]fluoranthene
Acifluorfen	Benzo[j]fluoranthene
Acrolein	Benzo[k]fluoranthene
Acrylamide	Benzofuran
Acrylonitrile	Benzo[a]pyrene
Actinomycin D	Benzotrichloride
Adriamycin (Doxorubicin hydrochloride)	Benzyl chloride
AF-2:[2-(2-furyl)-3-(5-nitro-2-furyl)]acrylamide	Benzyl violet 4B
Aflatoxins	Beryllium and beryllium compounds
Agaricine	Bis(2-chloroethyl)ether
Alachlor	N,N-Bis(2-chloroethyl)-2-naphthylamine
Aldrin	(Chlornapazine)
Allyl chloride	Bischloroethyl nitrosourea (BCNU)
Allyl isothiocyanate	(Carmustine)
Allyl isovalerate	Bis(chloromethyl)ether and technical-grade
Aluminium products	chloromethyl methyl ether
2-Aminoanthraquinone	Bitumens, extracts of steam-refined and air
p-Aminoazobenzene	refined
o-Aminoazotoluene [solvent yellow 3]	Bleomycins
4-Aminobiphenyl (4-aminodiphenyl)	Bracken fern
3-Amino-9-ethylcarbazole hydrochloride	Bromodichloromethane
1-Amino-2-methylanthraquinone	Bromoform
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	1,3-Butadiene
amino-5-nitrothiazole, 2-	1,4-Butanediol dimethanesulfonate (Busulfan,
Amitrole	myleran)
Analgesic mixtures containing phenacetin	Butylated hydroxyanisole (BHA)
Androgenic (anabolic) steroids	beta-Butyrolactone
Aniline	
ortho-Anisidine	C
ortho-Anisidine hydrochloride	Cadmium and cadmium compounds
para-anisidine anthanthrene	Caffeic acid
Antimony oxide (antimony trioxide)	Captafol
Aramite	Captan
Arsenic (inorganic arsenic compounds)	Carbazole
Asbestos	Carbon tetrachloride
Auramine	Carbon-black extracts
Azaserine	Carrageenan, degraded
Azathioprine	Ceramic fibers (airborne particles of respirable
Azacitidine	size)
Azobenzene	Chlorambucil
Azathioprine	Chloramphenicol
	chlorbenzilat
	Chlordane

Chlordecone (Kepone)
 Chlordimeform
 Chlorendic acid
 Chlorinated Paraffins
 alpha-Chlorinated toluenes
 p-Chloroaniline
 Cchlormadinone aceate
 Chlornaphazine[n,n-bis(2-chloroethyl)-2-naphthylamine]
 Chlorodibromomethane
 Chloroethane (ethyl chloride)
 1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU) (Lomustine)
 1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl-CCNU)
 Chloroform
 Chloromethyl methyl ether
 3-Chloro-2-methylpropene
 4-Chloro-ortho-phenylenediamine
 p-Chloro-o-toluidine
 Chlorophenols
 Chlorophenoxy herbicides
 Cloroprene
 Chlorothalonil
 Chlorozotocin
 Chromim
 Chromium (hexavalent compounds)
 Chrysene
 C. I. Acid Red 114
 C. I. Basic Red 9 monohydrochloride
 Ciclosporin (Cyclosporin A; Cyclosporine)
 Cinnamyl anthranilate
 Cisplatin
 Citrus Red No. 2
 Clofibrate
 Coal gasification products
 Coal-tars and pitches
 Cobalt metal powder
 Cobalt [II] oxide
 Conjugated estrogens
 Creosotes
 Crystal violet
 para-Cresidine
 cupferron
 cycasin
 cyclamates
 1,4-cyclohexadiene
 cyclophosphamide (anhydrous)
 cyclophosphamide (hydrated)

D

D&C Orange No. 17
 D&C Red No. 8
 D&C Red No. 9
 D&C Red No. 19
 Dacarbazine
 Daminozide
 Dantron (Chrysazin; 1,8-Dihydroxyanthraquinone)
 dapsone
 Daunomycin
 DCM
 DDD (Dichlorodiphenyldichloroethane)
 DDE (Dichlorodiphenyldichloroethylene)
 DDT (Dichlorodiphenyltrichloroethane)
 DDVP (Dichlorvos)

decabromodiphenyl oxide
 N,N'-Diacetylbenzidine
 2,4-Diaminoanisole
 2,4-Diaminoanisole sulfate
 4,4'-Diaminodiphenyl ether (4,4'-Oxydianiline)
 2,4-Diaminotoluene
 Diaminotoluene (mixed)
 Dibenz[a,h]acridine
 Dibenz[a,j]acridine
 Dibenz[a,h]anthracene
 7H-Dibenzo[c,g]carbazole
 Dibenzo[a,e]pyrene
 Dibenzo[a,h]pyrene
 Dibenzo[a,i]pyrene
 Dibenzo[a,l]pyrene
 1,2-Dibromo-3-chloropropane (DBCP)
 1,2-Dibromoethane
 2,3-Dibromo-1-propanol
 p-Dichlorobenzene
 3,3'-Dichlorobenzidine
 3,3'-Dichlorobenzidine dihydrochloride
 1,4-Dichloro-2-butene
 3,3'-Dichloro-4,4'-diaminodiphenyl ether
 1,1-Dichloroethane
 1,2-Dichloroethane
 Dichloromethane (Methylene chloride)
 1,2-Dichloropropane
 1,3-Dichloropropene
 Dieldrin
 Dienestrol
 Diepoxybutane
 Di(2-ethylhexyl)phthalate
 1,2-Diethylhydrazine
 Diethyl sulfate
 DES, Diethylstilbestrol
 Diglycidyl resorcinol ether (DGRE)
 Dihydrosafrole
 Diisopropyl sulfate
 3,3'-Dimethoxybenzidine (ortho-Dianisidine)
 3,3'-Dimethoxybenzidine dihydrochloride (ortho-dianisidine dihydrochloride)
 para-Dimethylaminoazobenzene
 4-Dimethylaminoazobenzene
 trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole
 7,12-Dimethylbenz(a)anthracene
 3,3'-Dimethylbenzidine (ortho-Tolidine)
 3,3'-Dimethylbenzidine dihydrochloride
 Dimethylcarbamoyl chloride
 1,1-Dimethylhydrazine (UDMH)
 1,2-Dimethylhydrazine
 Dimethyl sulfate
 Dimethylvinyl Chloride
 1,6-Dinitropyrene
 1,8-Dinitropyrene
 2,4-Dinitrotoluene
 2,6-Dinitrotoluene
 1,4-Dioxane
 Diphenylhydantoin (Phenytoin)
 Diphenylhydantoin (Phenytoin), sodium salt
 Direct Black 38
 Direct Blue 6
 Direct Brown 95
 Disperse Blue 1

E

Epichlorohydrin
 Erionite
 Estradiol 17B
 Estrogens (not conjugated)
 Estradiol-17
 Estrone
 Ethinylestradiol
 Mestranol
 Estrone
 Ethinylestradiol
 Ethyl acrylate
 Ethyl methanesulfonate
 Ethyl-4,4'-dichlorobenzilate
 Ethylene dibromide
 Ethylene dichloride (1,2-Dichloroethane)
 N-Ethyl-N-nitrosourea
 Ethylene oxide
 Ethylene thiourea
 Ethyleneimine

F

Folpet
 Formaldehyde (gas or aqueous solution)
 2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)
 thiazole
 Furan
 Furazolidone
 Furfurylcyclo
 Fusarin C

G

Glasswool fibers (airborne particles of respirable size)
 Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole)
 Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)
 Glycidaldehyde
 Glycidol
 Griseofulvin
 Gyromitrin (Acetaldehyde methylformylhydrazone)

H

HC Blue 1
 Heptachlor
 Heptachlor epoxide
 Hexachlorobenzene
 Hexachlorocyclohexanes
 Hexachlorodibenzodioxin
 Hexachloroethane
 Hexamethylphosphoramide
 Hydrazine
 Hydrazine sulfate
 Hydrazobenzene (1,2-Diphenylhydrazine)
 Hydroxybutyric acid lactone

I

Indeno [1,2,3-cd]pyrene
 Indium trichloride
 IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)

Iron dextran complex
 Isosafrole

K

Kepone (Chlordecone)

L

Lactofen
 Lasiocarpine
 Lead
 Lead acetate
 Lead phosphate
 Lindane and other hexachlorocyclohexane isomers

M

Mancozeb
 Maneb
 Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole)
 Medroxyprogesterone acetate
 MelQ(2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)
 MelQx(2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)
 Melphalan
 Merphalan
 Mestranol
 2-Methylaziridine (Propyleneimine)
 Methylazoxymethanol
 Methylazoxymethanol acetate
 3-Methylcholanthrene
 5-Methylchrysene
 4,4'-Methylene bis(2-chloroaniline) (MOCA)
 4,4'-Methylene bis(N,N-dimethyl)benzenamine
 4,4'-Methylene bis(2-methylaniline)
 4,4'-Methylenedianiline
 4,4'-Methylenedianiline dihydrochloride
 Methylhydrazine and its salts
 Methyl chloromethyl ether
 Methyl-CCNU
 Methyl iodide
 Methyl methanesulfonate
 2-Methyl-1-nitroanthraquinone
 N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG)
 N-Methyl-N-nitrosourea
 N-Methylolacrylamide
 Methylthiouracil
 Metiram
 Metronidazole
 Michler's ketone
 Mineral Oils, untreated and mildly treated
 Mirex
 Mitomycin C
 MOPP
 Monocrotaline
 5-(Morpholinomethyl)-3-[(5-nitro-furylidene)-amino]-2-oxazolidinone
 Mustard gas

N

Nafenopin
 1-Naphthylamine

2-Naphthylamine
3-Naphthylamine
Nickel and certain nickel compounds
Nickel carbonyl
Nickel subsulfide
Niridazole
Nitrilotriacetic acid
Nitrilotriacetic acid, trisodium salt monohydrate
5-Nitroacenaphthene
5-Nitro-o-anisidine
o-Nitroanisole
4-Nitrobiphenyl
6-Nitrochrysene
Nitrofen
2-Nitrofluorene
Nitrofurazone
1-[(5-Nitrofurfurylidene)amino]-2-imidazollidinone
1-[(5-Nitrofurfurylidene)-N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide
Nitrogen mustard (Mechlorethamine)
Nitrogen mustard hydrochloride
(Mechlorethamine hydrochloride)
Nitrogen mustard N-oxide
Nitrogen mustard N-oxide hydrochloride
2-Nitropropane
4-Nitropyrene
N-Nitrosodi-n-butylamine
N-Nitrosodiethanolamine
N-Nitrosodiethylamine
N-Nitrosodimethylamine
p-Nitrosodiphenylamine
N-Nitrosodiphenylamine
N-Nitrosodi-n-propylamine
N-Nitroso-N-ethylurea
3-(N-Nitrosomethylamino)propionitrile
4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)
N-Nitrosomethylethylamine
N-Nitroso-N-methylurea
N-Nitroso-N-methylurethane
N-Nitrosomethylvinylamine
N-Nitrosomorpholine
N-Nitrosornicotine
N-Nitrosopiperidine
N-Nitrosopyrrolidine
N-Nitrososarcosine
Norethisterone (Norethindrone)

O

Ochratoxin A
Oestrogen, nonstreoidal
Oestrogen, steroidal
Oil Orange SS
4,4'-Oxydianiline
Oxadiazon
Oxymetholone
Oxazepam

P

Panfuran S
Pentachlorophenol
Phenacetin
Phenazopyridine hydrochloride
Phenesterin

Phenobarbital
Phenoxybenzamine
Phenoxybenzamine hydrochloride
Phenyl glycidyl ether
Phenylhydrazine and its salts
o-Phenylphenate, sodium
Phenytoin
PhiP(2-Amino-1-methyl-6-phenylimidazol[4,5-b]pyridine)
Polybrominated biphenyls
Polychlorinated biphenyls
Polychlorinated biphenyls (containing 60 or more percent chlorine by molecular weight)
Polychlorinated dibenzo-p-dioxins
Polychlorinated dibenzofurans
Polycyclic aromatic hydrocarbons
Polygeenan
Ponceau MX
Ponceau 3R
Potassium bromate
Procarbazine
Procarbazine hydrochloride
Procymidone
Progesterone
Progestins
1,3-Propane sultone
Progargite
beta-Propiolactone
Propylene oxide
Propylthiouracil
Pyridinium chlorochromate

R

Radionuclides
Radon
Reserpine
Residual (heavy) fuel oils
Rhodamine 101

S

Saccharin
Saccharin, sodium
Safrole
Selenium sulfide
Shale-oils
Silica, crystalline (airborne particles of respirable size)
Sodium dichromate
Sodium hexafluoroarsenate(V)
Sodium ortho-phenylphenate
Sterigmatocystin
Streptozotocin
Styrene
Styrene oxide
Sulfallate
Sulphur trioxide
Sulphur trioxide N,N-dimethylformamide complex

T

Talc containing asbestiform fibers
Terrazole
Testosterone and its esters
2,3,7,8-Tetrachlorodibenzo-para-dioxin (TCDD)

1,1,2,2-Tetrachloroethane
Tetrachloroethylene (Perchloroethylene)
p-a,a,a-Tetrachlorotoluene
3,3',5,5'-tetramethylbenzidine
Tetranitromethane
Thioacetamide
4,4'-Thiodianiline
Thiourea
Thorium dioxide
Tobacco, oral use of smokeless products
Tobacco smoke
Toluene diisocyanate
p-toluenesulphonic acid
ortho-Toluidine
ortho-Toluidine hydrochloride
para-Toluidine
Toxaphene (Polychlorinated camphenes)
Tresulfan (Tresoluphan)
Trichlormethine (Trimustine hydrochloride)
2,4,6-Trichlorophenol
1,2,3-Trichloropropane
Triphenyltin hydroxide
Trichloroethylene
Tris (aziridinyl)-para-benzoquinone
(Triaziquone)
Tris (1-aziridinyl)phosphine sulfide (Thiotepa)
Tris (2-chloroethyl) phosphate
Tris (2,3-dibromopropyl)phosphate

TRIZMA base
Trp-P-1 (Tryptophan-P-1) (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole)
Trp-P-2 (Tryptophan-P-2) (3-Amino-1-methyl-5H-pyrido[4,3-b]indole)
Trypan blue

U

Uracil mustard
Urethane (Ethyl carbamate)

V

Vinyl bromide
Vinyl chloride
4-Vinyl-1-cyclohexene diepoxide (Vinyl cyclohexene dioxide)
n-vinyl pyrrolidone
Vinyl trichloride (1,1,2-Trichloroethane)

X

2,6-Xylidine (2,6-Dimethylaniline)

Z

Zineb