

GHSU High Hazard Chemical List

(04/11)

1. OSHA Carcinogens

Chemical Name	CAS Number
alpha-Naphthylamine	90-30-2
2-Acetylaminofluorene	53-96-3
Acrylonitrile	107-13-1
4-Aminodiphenyl	92-67-1
Benzene	71-43-2
Benzidine	92-87-5
1,3-Butadiene	106-99-0
Cadmium and Cadmium Compounds	7440-43-9, See Safety SOP for Safety Measures for Cadmium and Cadmium Compounds
bis-Chloromethyl Ether	542-88-1
methyl-Chloromethyl Ether	107-30-2
1,2-Dibromo-3-chloropropane	96-12-8
3,3'-Dichlorobenzidine (and its salts)	91-94-1
4-Dimethylaminoazo-benzene (Methyl Yellow, indicator grade)	60-11-7
Ethylene Oxide	75-21-8
Ethyleneimine	151-56-4
Inorganic Arsenic Compounds	7440-38-2, See Chemical Safety SOP for Safety Measures for Inorganic Arsenic Compounds
Methylene Chloride	75-09-02
Beta-Naphthylamine	91-59-8
N-Nitrosodimethylamine	67-75-9

beta-Propiolactone	57-57-8
Vinyl Chloride	75-01-04
Acetaldehyde	75-07-0
Acetamide	60-35-5
2-Acetylaminofluorene	53-96-3
Acrylamide	79-06-1
Acrylonitrile	107-13-1
2-Aminoanthraquinone	117-79-3
4-Aminoazobenzene	60-09-3
4-Aminobiphenyl	92-67-1
1-Amino-2-methylantraquinone	82-28-0
Amitrole	61-82-5
o-Anisidine	90-04-0
o-Anisidine hydrochloride	85006-21-9
Arsenic and inorganic arsenic compounds	7440-38-2, See MCG Chemical Safety Guide for Handling Practices
Asbestos (friable)	12001-29-5/ 12172-73-5
Atrazine	1912-24-9
Benzene	71-43-2
Benzidine	92-87-5
Benzoic trichloride	98-07-7
Beryllium and beryllium compounds	7440-41-7, See MCG Chemical Safety Guide for Handling Practices
Bis(chloromethyl)ether	542-88-1
1,3-Butadiene	106-99-0
1,2-Butylene oxide (stabilized)	106-88-7
C.I. Acid Red 114	6459-94-5
C.I. Direct Black 38	1937-37-7
C.I. Direct Blue 6	2602-46-2

C.I. Direct Brown 95	16071-86-6
C.I. Food Red 5	3761-53-3
C.I. Solvent Yellow 3 (o-aminoazotoluene)	97-56-3
C.I. Solvent Yellow 34 (Auramine)	2465-27-2
Cadmium and cadmium compounds	7440-43-9, See MCG Chemical Safety Guide for Handling Practices
Carbon tetrachloride	56-23-5
Catechol	120-80-9
Chlordane	57-74-9
Chlorendic acid	115-28-6
p-Chloroaniline	106-47-8
Chloroform	67-66-3
Chloromethyl methyl ether	107-30-2
3-Chloro-2-methyl-1-propene	563-47-3
Chlorophenols (e.g., 2-Chlorophenol)	95-57-8
Chloroprene	126-99-8
Chlorothalonil	1897-45-6
p-Chloro-o-toluidine	615-65-6
Chromium (VI) compounds	1333-82-0, See MCG Chemical Safety Guide for Handling Practices
Cobalt and cobalt compounds	7440-48-4, See MCG Chemical Safety Guide for Handling Practices
Creosote	8021-39-4
p-Cresidine	120-71-8
Cupferron	135-20-6
2,4-D	94-75-7
2,4-D butoxyethyl ester	1929-73-3
2,4-D butyl ester	94-80-4
2,4-D chlorocrotyl ester	2971-38-2

2,4-D 2-ethylhexyl ester	79270-78-3
2,4-D 2-ethyl-4-methylpentyl ester	53404-37-8
2,4-Diaminoanisole	123333-56-2
2,4-Diaminoanisole sulfate	123333-56-2
4,4'-Diaminodiphenyl ether	101-80-4
2,4-Diaminotoluene	95-80-7
Diaminotoluene (mixed isomers)	2687-25-4
1,2-Dibromo-3-chloropropane	96-12-8
1,2-Dibromoethane	74-95-3
1,4-Dichlorobenzene	106-46-7
Dichlorobenzene (mixed isomers)	25321-22-6
3,3'-Dichlorobenzidine	91-94-1
3,3'-Dichlorobenzidine dihydrochloride	612-83-9
3,3'-Dichlorobenzidine sulfate	64969-34-2
Dichlorobromomethane	75-27-4
1,2-Dichloroethane	107-06-2
Dichloromethane	75-09-2
trans-1,3-Dichloropropene	10061-02-6
1,3-Dichloropropylene	542-75-6
Dichlorvos	62-73-7
Diepoxybutane	1464-53-5
Di-(2-ethylhexyl)phthalate	117-81-7
Diethyl sulfate	64-67-5
Diglycidyl resorcinol ether	101-90-6
Dihydrosafrole	94-58-6
3,3'-Dimethoxybenzidine	119-90-4
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0
3,3'-Dimethoxybenzidine hydrochloride	111984-09-9
4-Dimethylaminoazobenzene	60-11-7

3,3'-Dimethylbenzidine	119-93-7
3,3'-Dimethylbenzidine dihydrochloride	612-82-8
3,3'-Dimethylbenzidine dihydrofluoride	41766-75-0
Dimethylcarbanyl chloride	79-44-7
N,N-Dimethylformamide	68-12-2
1,1-Dimethylhydrazine	57-14-7
Dimethyl sulfate	77-78-1
2,4-Dinitrotoluene	121-14-2
2,6-Dinitrotoluene	606-20-2
1,4-Dioxane	123-91-1
1,2-Diphenylhydrazine	122-66-7
2,4-D isopropyl ester	94-11-1
2,4-DP	120-36-5
2,4-D propylene glycol butyl ether ester	1320-18-9
2,4-D sodium salt	2702-72-9
Epichlorohydrin	106-89-8
Ethyl acrylate	140-88-5
Ethyl benzene	100-41-4
Ethyleneimine	151-56-4
Ethylene oxide	75-21-8
Ethylene thiourea	96-45-7
Formaldehyde	50-00-0
Heptachlor	76-44-8
Hexachlorobenzene	118-74-1
alpha-Hexachlorocyclohexane	319-84-6
Hexachloroethane	67-72-1
Hexamethylphosphoramide	680-31-9
Hydrazine	302-01-2
Hydrazine sulfate	88491-70-7/ 10034-93-2

Lead and inorganic lead compounds	7439-92-1, See MCG Chemical Safety Guide for Handling Practices
Lindane	58-89-9
Mecoprop	7085-19-0
Methoxone	94-74-6
Methoxone sodium salt	3653-48-3
4,4-Methylenebis (2-chloroaniline)	101-14-4
4,4'-Methylenebis (N,N-dimethyl) benzeneamine	101-61-1
4,4'-Methylenedianiline	101-77-9
Michler's ketone	90-94-8
Mustard gas	505-60-2
alpha-Naphthylamine	134-32-7
beta-Naphthylamine	91-59-8
Nickel	7440-02-0
Nickel compounds	7440-02-0, See MCG Chemical Safety Guide for Handling Practices
Nitrilotriacetic acid	139-13-9
Nitrobenzene	98-95-3
4-Nitrobiphenyl	92-93-3
Nitrofen	1836-75-5
Nitrogen mustard(s)	538-07-8/ 51-75-2/ 555-77-1
2-Nitropropane	79-46-9
N-Nitrosodi-n-butylamine	924-16-3
N-Nitrosodiethylamine	55-18-5
N-Nitrosodimethylamine	62-75-9
N-Nitrosodi-n-propylamine	621-64-7
N-Nitroso-N-ethylurea	759-73-9
N-Nitroso-N-methylurea	684-93-5
N-Nitrosomethylvinylamine	4549-40-0

N-Nitrosomorpholine	59-89-2
N-Nitrosornicotine	16543-55-8
N-Nitrosopiperidine	100-75-4
Pentachlorophenol	87-86-5
Phenytoin	57-41-0
Polychlorinated alkanes (C12, 60% chlorinated)	EDF-045
Polybrominated biphenyls (PBBs)	PJL335
Polychlorinated biphenyls (PCBs)	1336-36-3
Polycyclic aromatic compounds (PACs):	65996-93-2
Benz(a)anthracene	56-55-3
Benzo(b)fluoranthene	205-99-2
Benzo(j)fluoranthene	205-82-3
Benzo(k)fluoranthene	207-08-9
Benzo(rst)pentaphene	189-55-9
Benzo(a)pyrene	50-32-8
Dibenz(a,h)acridine	226-36-8
Dibenz(a,j)acridine	224-42-0
Dibenzo(a,h)anthracene	53-70-3
7H-Dibenzo(c,g)carbazole	194-59-2
Dibenzo(a,e)pyrene	192-65-4
Dibenzo(a,h)pyrene	189-64-0
Dibenzo(a,l)pyrene	191-30-0
7,12-Dimethylbenz(a)anthracene	57-97-6
Indeno[1,2,3-cd]pyrene	193-39-5
5-Methylchrysene	3697-24-3
1-Nitropyrene	5522-43-0
Potassium bromate	7758-01-2
Propane sultone	1120-71-4
beta-Propiolactone	57-57-8

Propyleneimine	75-55-8
Propylene oxide	75-56-9
Saccharin (manufacturing)**	81-07-2
Safrole	94-59-7
Sodium o-phenylphenoxide	132-27-4
Styrene	100-42-5
Styrene oxide	96-09-3
Tetrachloroethylene	127-18-4
Thioacetamide	62-55-5
4,4'-Thiodianiline	139-65-1
Thiourea	62-56-6
Toluene-2,4-diisocyanate	584-84-9
Toluene-2,6-diisocyanate	91-08-7
Toluene diisocyanate (mixed isomers)	26471-62-5
o-Toluidine	95-53-4
o-Toluidine hydrochloride	636-21-5
Toxaphene	8001-35-2
Trichloroethylene	79-01-6
2,4,6-Trichlorophenol	88-06-2
1,2,3-Trichloropropane	96-18-4
Tris(2,3-dibromopropyl) phosphate	126-72-7
Trypan blue	72-57-1
Urethane	51-79-6
Vinyl acetate	108-05-4
Vinyl bromide	593-60-2
Vinyl chloride	75-01-4
2,6-Xylidine	87-62-7

2. CDC Toxins

Toxin Name CAS Number

Abrin	NA
Aflatoxins	1165-39-5
Botulinum toxins	NA
<i>Clostridium perfringens</i> epsilon toxin	NA
Conotoxins	NA
Diacetoxyscirpenol	NA
Ricin	8001-79-4
Saxitoxin	NA
Shigatoxin	NA
Staphylococcal enterotoxins	NA
Tetrodotoxin	4368-28-9
T-2 toxin	NA

3. Pesticides Banned or Severely Restricted by EPA

Pesticide Name CAS Number

Arsenic Trioxide	1327-53-3
2,3,4,5-Bis(2-butylene)tetrahydro-2-furaldehyde (Repellent 11)	6840-01-309-3890
Bromoxynil butyrate	3861-41-4
Calcium Arsenate	7778-44-1
Carbofuran (granular only)	1563-66-2

Chloranil	118-75-2
Chlordecon (Kepone)	143-50-0
Chlorinated Camphene (Toxaphene)	8001-35-2
Chloromethoxypropylmercuric acetate (CMPA)	EDF-183

Copper Arsenate	10103-61-4
Daminozide/alar	NA
DBCP (1,2-dibromo-3-chloro- Propane)	96-12-8
Di(phenylmercury)dodecenylsuccinate (PMDS)	EDF-187
Endrin	76-44-8
EPN (O-ethyl O-(p-nitrophenyl)ester)	2104-64-5
Ethyl hexyleneglycol	94-96-2
Lead arsenate	7784-40-9
Leptophos	21609-90-5
Mevinphos	7786-34-7
Mirex	2385-85-5
Nitrofen (TOK)	1836-75-5
Octamethylpyrophosphoramidate (OMPA)	152-16-9
Phenylmercury acetate (PMA)	62-38-4
Phenylmercuric oleate (PMO)	EDF-185
Potassium 2,4,5-trichlorophenate (2,4,5 TCP)	95-95-4
Pyriminil (Vacor)	53558-25-1
Safrole	94-59-7
Silvex	93-72-1
Sodium Arsenate	7778-43-0
TDE (Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl))	72-54-8

Terpene polychlorinates (Strobane)	25267-15-6
Thallium sulfate	7446-18-6
Tributyltin compounds	EDF-184, See Chemical Safety SOP for Safety Measures Tributyltin Compounds
Vinyl Chloride	75-01-04

4. DOT Explosives

Chemical Name CAS Number

Ammonium Perchlorate	7790-98-9
Ammonium Picrate	131-74-8
1-Bromo-2-nitrobenzene	577-19-5
1-Bromo-3-nitrobenzene	585-79-5
1-Bromo-4-nitrobenzene	586-78-7
Cyclotrimethylenetrinitramine (RDX)	121-84-4
1,1-Dinitroethane (dry)	600-40-0
1,2-Dinitroethane	7570-26-5
Dinitroethyleneurea	NA
Dinitroglycerine	623-87-0
Dinitroglycol	628-96-6
Dinitromethane	625-76-3
Dinitrophenol (less than 15% water, by mass)	25550-58-7
2,4-Dinitrophenol	51-28-5
Dinitropropylene glycol	6423-43-4
Dinitrostilbene	6275-02-1
Ethanol amine dinitrate	None
Ethyl 4,4 - dinitropentanoate	NA

Galactsan trinitrate	None
Glycerol monoglugonate trinitrate	NA
Glycerol monolactate trinitrate	NA
Hexamethylol benzene hexanitrate	105554-30-1
Hexanitro dihydroxazobenzene	None
Hexanitroazoxy benzene	None
Hexanitrodiphenyl ether	NA
Hexanitrodiphenylamine	35860-31-2
Hexanitrodiphenylurea	None
Hexanitroethane	918-37-6
Hexanitrooxanilide	29135-62-4
Hexanitrostilbene	20062-22-0
Inulin trinitrate	None
Mannitan tetranitrate	None
Methyl nitrate	598-58-3
Methyl picric acid (heavy salts of metal)	None
Methylamine ditramine	None
Methylene glycol dinitrate	38483-28-2
Mercury oxalate	NA
N-Nitroaniline	645-55-6
5-Nitro 1H-benzotriazole	2338-12-7
Nitrocellulose (granular and fibrous form)	9004-70-0, See Chemical Safety SOP for Safety Measures for Nitrocellulose
Nitroethyl nitrate	4528-34-1
Nitrogen trichloride	10025-85-1
Nitroglycerine	55-63-0

Nitroglycide	NA
Nitroglycol	628-96-6
Nitroguanidine	556-88-7
Nitrohydantoin	2825-15-2
Nitromannite	15825-70-4
N-Nitrourea	556-89-8
Octogen	2691-41-0
Pentaerythritetetraniatrate (PETN)	78-11-5
Pentaerythritol tetranitrate	78-11-5
Pentanitroaniline	21985-87-5
Pentolite	8066-33-9
Picramic acid	96-91-3
Sodium amitol	NA
Tetranitroaniline	53014-37-2
Tetranitroaniline Styphic acid	NA
Tetranitrocarbazole	28453-24-9
Tetranitrochryszazin	517-92-0
Tetrytol	NA
Tetryl	479-45-8
Trinitroacetic acid	None
Triacetoneitrile	630-72-8
Trinitroaniline	26952-42-1
Trinitrobenzene	99-35-4
Trinitrocresol	NA
Trinitoresorcinol	82-71-3
Urea nitrate	124-47-0

5. Chemicals used at MCG with an LD/50 less than 50 mg/kg

Chemical Name LD/50 CAS Number

Aconitine crystalline	1 mg/kg	302-27-2
Acrolein (2-Propenal)C	26 mg/kg	107-02-08
Actinomycin	13 mg/kg	50-76-0, See Chemical Safety SOP for Safety Measures for Actinomycin
Aminopterin	3 mg/kg	54-62-6
Arterenol free base	20 mg/kg	51-41-2, See Chemical Safety SOP for Safety Measures for Arterenol
Butyl methyl ether, tertiary (TBME)	4 mg/kg	1634-04-4
Carbon Fuchsin	36 mg/kg	4197-24-4
Cytochalasin B from helminthosporium dematiodeum	11 mg/kg	14390-96-2
Mitomycin (as mutamycin)	23 mg/kg	50-07-7
Muscimol	45 mg/kg	2763-96-4
Sodium Cacodylate	4 mg/kg	124-65-2
Sodium m-arsenite	41 mg/kg	7784-46-5
Wortmannin	18 mg/kg	19545-26-7, See Chemical Safety SOP for Safety Measures for Wortmanin

