

Most Common Chemicals / Mixtures and Their Associated Hazards

Chemicals / Mixtures	Hazards	Chemical	Hazards
1% osmium, cacodylic buffer	Toxic	Ethyl acetate / hexane / methylene chloride	Ignitable, Toxic
1,3 bis (2-chloroethyl) - 1 - nitrosourea	Ignitable	Ethyl acetate / methylene chloride	Ignitable, Toxic
1-1-1, - trichloroethane / perchloroethylene	Toxic	Ethyl acetate / palladium in carbon	Ignitable
1-methyl 2 pyrrolidone / sodium borate	Toxic	Ethyl Acetate / Phenylisothiocyanate	Ignitable, Toxic
1-methyl-2-pyrrolidinone	Toxic	ethyl acetate / tetrahydrofuran	Ignitable
1-methyl-2-pyrrolidone / pyridine	Ignitable	Ethyl acetate / toluene	Ignitable
2- butene	Ignitable	ethyl acetate / trimethylamine	Ignitable, Corrosive
2, 4 dinitrophenol / chloroform	Ignitable, Toxic	ethyl acetate/ methylene chloride	Ignitable, Toxic
2,4 Diamno toluene	Non Regulated - Toxic	ethyl alcohol	Ignitable
2,5 diphenyl Oxazole / acetic acid	Corrosive	Ethyl Ether	Ignitable
2-methyl 2-butene	Ignitable	Ethyl ether / Dimethyl sulfide	Ignitable
2-methyl-2-propanol	Ignitable	ethyl ether, bleach	Ignitable, Corrosive
37% formaldehyde	Corrosive	ethyl nitroso urea (contaminated solids)	Ignitable
37-38% formaldehyde	Corrosive	Ethylacetate / hexane	Ignitable
4 nitroquinilone	Toxic	ethylene dibromide	Toxic
4% paraformaldehyde/96% phosphate buffer	Non Regulated - Toxic	Ethylene glycol / water	Non Regulated-Toxic
4-chloro-1-naphthol	Non Regulated - Toxic	Ethylene glycol monomethylether acetate	Ignitable
acetaldehyde	Ignitable	ferric chloride	Corrosive
acetic acid	Corrosive	Fixer containig silver	Toxic
Acetic acid / acetonitrile	Corrosive, Ignitable	Fluorosil / silica gel	Non Regulated-Toxic
Acetic acid / acetonitrile / methanol	Corrosive, Ignitable	2% formaldehyde	Non Regulated-Toxic
Acetic acid / aluminum sulfate / water	Corrosive	formaldehyde / .1% copper solution	Non Regulated-Toxic
Acetic acid / benzene / chloroform	Corrosive, Ignitable, Toxic	formaldehyde / formamide / mercaptoethanol	Toxic
Acetic acid / chromium oxide	Corrosive, Toxic	4% formaldehyde / methanol	Ignitable, Toxic
acetic acid / ethanol / formalin	Corrosive, Ignitable	4% formaldehyde / silver / tungstosilicic acid	Toxic
Acetic acid / ethanol / paraformaldehyde	Corrosive, Ignitable	Formaldehyde 20%	Ignitable
Acetic acid / formalin / picric acid	Corrosive, Ignitable	Formaldehyde 37% / water	Corrosive
Acetic acid / hexane / toluene	Corrosive, Ignitable	Formaldehyde 5%, gluteraldehyde	Toxic
Acetic acid / methanol	Corrosive, Ignitable	formalin	Non Regulated-Toxic
Acetic acid / pyridine	Corrosive, Ignitable	Formalin 5%	Non Regulated-Toxic
acetic acid / silver	Corrosive, Toxic	formamide / heptane / methanol	Ignitable, Toxic
acetic acid / water	Corrosive	Formamide	Non Regulated-Toxic
Acetic acid solution	Corrosive	1% formamide / 1% formaldehyde solution	Non Regulated-Toxic
acetic acid, nitric acid, water	Corrosive	paraformaldehyde	Non Regulated-Toxic
acetic anhydride	Corrosive, Ignitable	Formamide / 2% paraformaldehyde solution	Non Regulated-Toxic
acetic acid,methyl methacrylate	Corrosive, Ignitable, Toxic	formamide / phenol / methanol	Ignitable, Toxic
Acetone	Ignitable	formamide, formaldehyde 5%,paraformaldehyde	Toxic
Acetone / acetonitrile	Ignitable	Formic Acid	Corrosive
Acetone / acetonitrile / ethyl acetate	Ignitable	Formic acid, acetonitrile, water	Corrosive, Flammable
acetone / alcohol	Ignitable	gallic acid	Non Regulated-Toxic
acetone / anisole	Ignitable	Gasoline containing Benzene	Ignitable, Toxic

Chemicals / Mixtures	Hazards	Chemical	Hazards
Acetone / benzene	Ignitable, Toxic	Giemsa Stain / Methanol	Ignitbale
Acetone / Benzene / Ethyl Acetate / Hexane	Ignitable	glutaraldehyde	Non Regulated-Toxic
Acetone / benzene / hexane	Ignitable	Glutaraldehyde / paraformaldehyde 4%	Non Regulated-Toxic
Acetone / benzene / pentane	Ignitable	gluteraldehyde	Non Regulated-Toxic
Acetone / Bleach	Ignitable, Corrosive	Glycerol	Non Regulated-Toxic
Acetone / bleach / ethyl acetate	Ignitable, Corrosive	Glycine	Non Regulated-Toxic
Acetone / bleach / methanol	Ignitable, Corrosive	Gram iodine	Non Regulated-Toxic
Acetone / Bromine	Ignitable, Toxic, Corrosive	guanidine hydrochloride	Non Regulated-Toxic
acetone / butyl acetate based glue	Ignitable	Guanidine isothiocyanate / phenol	Toxic
Acetone / catechol	Ignitable, Toxic	halothane / mineral oil	Toxic
Acetone / Chloroform	Ignitable, Toxic	Heptane	Ignitable
Acetone / chloroform / Dichloromethane	Ignitable, Toxic	heptane containing organopolysiloxane	Ignitable, Corrosive
Acetone / chloroform / Hexane	Ignitable, Toxic	Hexamethyl tin 0.05 % / sodium sulfate debris	Non Regulated-Toxic
Acetone / chloroform / ethanol	Ignitable, Toxic	hexamethyldisilazane	Ignitable, Toxic
Acetone / chromium	Ignitable, Toxic	hexamethyldisilazane / ethanol	Ignitable, Toxic
Acetone / cresol resin	Ignitable, Toxic	hexamethyldisilazane / osmium tetroxide	Ignitable, Toxic
Acetone / cuprous cyanide	Ignitable, Toxic	Hexamethylphosphormamide	Toxic
Acetone / decahydronaphthalene	Ignitable	Hexane	Ignitable
Acetone / dichloromethane	Ignitable, Toxic	Hexane / chloroform / methylene chloride	Ignitable, Toxic
Acetone / Dichloromethane / Hexane	Ignitable, Toxic	Hexane / ether	Ignitable
Acetone / diethyl ether	Ignitable	hexane / hydrochloric acid	Ignitable, Corrosive
Acetone / diethyl ether / hexane	Ignitable	Hexane / isopropanol	Ignitable
Acetone / dimethylformamide	Ignitable	Hexane / methanol	Ignitable
Acetone / ethanol	Ignitable	Hexane / methanol / methylene chloride	Ignitable, Toxic
acetone / ethanol / kerosene	Ignitable	Hexane / methylene chloride	Ignitable, Toxic
Acetone / Ether	Ignitable	Hexane / pyridine	Ignitable
Acetone / ether / chloroform	Ignitable, Toxic	hexane / silicone oil	Ignitable
Acetone / ethyl acetate	Ignitable	hexane / Titaninium isopropoxide	Ignitable, Reactive
Acetone / Ethyl Acetate / Hexane	Ignitable	Hexane / tributylether	Ignitable
Acetone / ethyl acetate / methylene chloride	Ignitable, Toxic	Hexane / tributyltinchloride	Ignitable, corrosive, reactive
Acetone / ethyl ether / hexane	Ignitable	hydrochloric acid	corrosive
Acetone / hexamethylphosphoramide	Ignitable	Hydrochloric acid / 1% lead	corrosive, toxic
Acetone / hexane	Ignitable	Hydrochloric acid / chromium trioxide	corrosive, oxidizing, toxic
Acetone / hexane / isopropanol	Ignitable	hydrochloric acid / lead / tin solution	corrosive, toxic
Acetone / hexane / methanol	Ignitable	Hydrochloric acid / methylene chloride	corrosive, toxic
acetone / hexane / methylene chloride	Ignitable, Toxic	Hydrochloric acid / Pyridine	Corrosive, Flammable
Acetone / hexane / quinoline	Ignitable	hydrochloric acid / sulfuric acid	Corrosive
Acetone / hexane / toluene	Ignitable, Toxic	Hydrochloric acid / triethylamine pH=7	Ignitable
Acetone / hydrochloric acid	Ignitable, Corrosive	Hydrochloric acid / sodium hypochlorite pH=7	Non Regulated-Toxic
Acetone / isopropanol	Ignitable	hydrochloric acid 2% / water	Corrosive
Acetone / isopropanol / methylisobutyl ketone	Ignitable, Corrosive	Hydrochloric acid 60% / Hydrogen Peroxide 20%	Corrosive, oxidizing
Acetone / lithium methoxide	Ignitable, Reactive	Hydrochloric acid 75 % / Nitric Acid 25%	Corrosive

Chemicals / Mixtures	Hazards	Chemical	Hazards
acetone / methanol	Ignitable	hydrochloric acid, tetrahydrofuran, acetone	Corrosive, Ignitable
Acetone / methanol / sulfuric acid	Ignitable, Corrosive	Hydrofluoric acid 1%	Corrosive, Toxic
Acetone / methanol / tetrahydrofuran	Ignitable	Hydrofluoric acid 10%	Corrosive, Toxic
Acetone / Methanol / Trichloroethylene	Ignitable, Toxic	hydrofluoric acid 5%	Corrosive, Toxic
Acetone / methylene chloride	Ignitable, Toxic	hydrofluoric acid / nitric acid	Corrosive, Toxic
Acetone / nitric acid	Ignitable, Corrosive	Hydrofluoric acid 12% / hydrogen peroxide	Corrosive, Toxic, Oxidizing
Acetone / oil / Trichloroethylene	Ignitable, Toxic	Hydrofluoric Acid 50 % / Water 50 %	Corrosive, Toxic
Acetone / potassium cyanide	Ignitable, Toxic	hydrogen peroxide / methanol	Ignitable
Acetone / Propylene Glycol	Ignitable	Hydrogen peroxide 30%	Oxidizer, Corrosive
Acetone / pyridine	Ignitable	Hydroquinone	Toxic
Acetone / pyridine / tributyltinchloride	Ignitable, Corrosive	Hydroquinone	Toxic
Acetone / silver	Ignitable, Toxic	hydroquinone / 2 - aminoethoxy)ethanol	Corrosive, Toxic
Acetone / sodium azide 1%	Ignitable, Toxic	hydroquinone base developer	Toxic
Acetone / sulfuric acid	Ignitable, Corrosive	Hydroquinone based developer	Toxic
Acetone / sulfuric acid / Hydrofluoric Acid	Ignitable, Toxic, Corrosive	hydroxy urea	Non Regulated-Toxic
Acetone / Tetrahydrofuran	Ignitable	Hypoxanthine	Non Regulated-Toxic
Acetone / tetrahydrofuran / chromium dioxide	Ignitable, Toxic	indole	Non Regulated-Toxic
Acetone / Water	Ignitable	iodine	Toxic
acetone, sodium hypochlorite based bleach	Ignitable, Corrosive	Iodoacetamide	Toxic
acetone, triethylamine	Ignitable, Corrosive	iodoacetic acid	Corrosive
acetone,methanol	Ignitable	Iron cyanide / methylene chloride	Toxic
Acetone/chloroform /Hexane /Dichloromethane	Ignitable, Toxic	Iron Pentacarbonyl	Toxic, Ignitable
acetoneitrile	Ignitable	isooctane / glass	Ignitable
acetoneitrile, potassium hydroxide	Ignitable, Corrosive	Isopropanol	Ignitable
acetoneitrile,water	Ignitable	isopropanol / acetic acid	Ignitable, Corrosive
Acetonitrile / acetic acid	Ignitable, Corrosive	Isopropanol / Methanol	Ignitable
Acetonitrile / dimethylformamide	Ignitable	isopropanol / methyl isobutyl ketone	Ignitable
Acetonitrile / ethyle acetate / hexane	Ignitable	Isopropanol / methylene chloride	Ignitable, Toxic
Acetonitrile / formic acid 1 % pH= 7	Ignitable	Isopropanol / potassium hydroxide	Ignitable, Corrosive
Acetonitrile / iodine	Ignitable	Isopropanol / potassium hydroxide 1% pH=8	Ignitable
Acetonitrile / methanol	Ignitable	Isopropanol / tetrahydrofuran	Ignitable
Acetonitrile / methanol / trifluoroacetic acid	Ignitable, Corrosive	isopropanol / trimethyl benzene	Ignitable
Acetonitrile / methylene chloride	Ignitable, Toxic	isopropanol,calcium hydroxide, water	Ignitable, Corrosive
Acetonitrile / methylene chloride / pyridine	Ignitable, Toxic	isopropyl alcohol	Ignitable
acetonitrile / Nitric acid	Ignitable, Corrosive	isopropyl magnesium chloride in ether solution	Ignitable, Reactive
Acetonitrile / silver salts	Ignitable, Toxic	Lactic acid	Non Regulated-Toxic
Acetonitrile / Tetrahydrofuran	Ignitable	laser dye contaminated debris	Toxic
Acetonitrile / Trifluoroacetic acid	Ignitable, Corrosive	latex based paint	Non Regulated-Toxic
Acetonitrile / Water	Ignitable	Lead	Toxic
Acetonitrile solution	Ignitable	lead / sodium hydroxide / tin solution	Toxic, Corrosive
acetonitrile/ethyl acetate/trifluoroacetic acid	Ignitable, Corrosive	Lead / tin debris	Toxic
Acid contaminated gloves, pipets, and sharps	Corrosive	Lead / tin sulfate	Toxic

Chemicals / Mixtures	Hazards	Chemical	Hazards
acridine orange	Non Regulated-Toxic	lead acetate	Toxic
acrolein solution	Toxic	Lead acetate / silica gel	Toxic
acrylamide	Toxic	Lead Acid Batteries	Toxic, Corrosive
Acrylamide / water	Toxic	lead contaminated gloves / paper towels	Toxic
acrylamide contaminated debris	Toxic	Lead plates	Toxic
Alcohol based decolorizer	Ignitable	lithium salt	Non Regulated-Toxic
Alcohol based dye	Ignitable	Lithium tri-sec-butyl borohydride	Ignitable, Reactive
alcohol thermometer	Ignitable	lowry reagent PH = < 2	Corrosive
alkyl benzene based scintillation fluid	Non Regulated-Toxic	lubricating oils	Toxic
Alkyl sulfate compound	Non Regulated-Toxic	Magnesium / zinc salts solution	Non Regulated-Toxic
alkyl thiol / bleach / water	Toxic	mercapto ethanol	Toxic
alkyl benzene based scintillation fluid	Non Regulated-Toxic	mercaptoacetic acid	Corrosive
all trans retinoic acid	Non Regulated-Toxic	mercaptoethanol	Toxic
Allyl magnesium chloride, tetrahydrofuran	Ignitable, Corrosive, Reactive	mercurous chloride	Toxic
Alumina / molecular sieves	Non Regulated-Toxic	Mercury / mercury contaminated debris	Toxic
ammonium / potassium and sodium hydroxides	Corrosive	Mercury < 1 % / Water	Toxic
Ammonium bicarbonate	Non Regulated-Toxic	mercury amalgam	Toxic
ammonium chloride	Non Regulated-Toxic	Mercury bulb	Toxic
Ammonium fluoride	Toxic	Mercury contaminated tube	Toxic
ammonium hydroxide	Corrosive	mercury lamp	Toxic
ammonium hydroxide	Corrosive	Mercury salts	Toxic
Ammonium hydroxide / nickel sulfate	Corrosive	mercury sulfate solution	Toxic
Ammonium hydroxide / sodium hydroxide	Corrosive	mercury thermometer	Toxic
ammonium sulfate	Non Regulated-Toxic	mercury, acetone, hexane	Ignitable, Toxic
ammonium sulfate	Non Regulated-Toxic	methane sulfonic acid methyl ester contaminated	Toxic
ammonium persulfate	Oxidizer	methanol	Ignitable
Anion exchange Resin	Non Regulated-Toxic	Methanol / laser dye	Ignitable
Aqueous cyanide solution	Toxic, Reactive	Methanol / methylene chloride	Ignitable, Toxic
Arsenic / sodium cacodylate	Toxic	Methanol / Phosphoric acid	Ignitable, Corrosive
ascorbic acid / ethanol / potassium hydroxide	Ignitable, Corrosive	Methanol / Piperidine	Ignitable, Corrosive
Barium / lead	Toxic	Methanol / pyridine / sulfuric acid	Ignitable, Corrosive
benzene	Ignitable, Toxic	Methanol / sodium hydroxide	Ignitable, Corrosive
Benzene / bleach	Flammable, Corrosive	methanol / trichloroethylene	Ignitable, Toxic
Benzene / chloroform / dichloromethane	Ignitable, Toxic	methanol 1% / Water 99%	Toxic
Benzene / Ethanol / Hexane / Toluene	Ignitable, Toxic	methanol 10% / water 90%	Toxic
Benzene / ethyl acetate / hexane	Ignitable, Toxic	Methanol based dye	Ignitable
Benzene / pentane	Ignitable, Toxic	methanol solution	Ignitable
Benzoic acid	Non Regulated-Toxic	methanol, diisopropyl amine	Ignitable, Corrosive
Benzophenone	Non Regulated-Toxic	methylmagnesium bromide	Ignitable, Reactive
Benzyl mercaptan contaminated debris	Toxic	methotrexate	Non Regulated-Toxic
Beta mercaptoethanol	Toxic	methyl - 2 - pyrrolidone	Non Regulated-Toxic
bis chloroethyl nitrosourea / mercaptoethanol	Ignitable, Toxic	methyl cyanofornate 1% / trimethyl tin / water	Toxic

Chemicals / Mixtures	Hazards	Chemical	Hazards
bis(triphenyl phosphate) palladium acetate	Non Regulated-Toxic	methyl magnesium bromide in ether solution	Ignitable, Reactive
bisbenzimidazole	Non Regulated-Toxic	methyl methacrylate / ethyl alcohol	Ignitable
bleach	Corrosive	3-methyl salicylic acid	Non Regulated-Toxic
Bleach / Bacteria	Toxic, Corrosive	methyl sulfoxide	Toxic
Bleach / Picrotoxin	Toxic Corrosive	Methylamine	Ignitable, Corrosive
Bleach / contaminated vials / water	Corrosive	methylene chloride	Toxic
Bleach / copper cyanide	Corrosive, Toxic	Methylene chloride / piperidine	Toxic, Corrosive, Ignitable
Bleach / Dimethyl sulfoxide / Ethyl ether	Corrosive, Flammable	Methylene chloride / tetrahydrofuran	Toxic, Ignitable
Bleach / ethanethiol / ethyl acetate	Flammable, Toxic, Corrosive	Methylene chloride / water	Toxic
Bleach / ethanol	Flammable, Corrosive	Methylene chloride / xylene	Ignitable, Toxic
Bleach / Ether / water	Flammable, Corrosive	methylene chloride, acetone	Ignitable, Toxic
Bleach / ethyl acetate / toluene	Flammable, Corrosive	methylene chloride, methanol	Ignitable, Toxic
Bleach / ferric chloride pH=7	Toxic	methylmethacrylate / n-butylphlate	Ignitable
Bleach / hexane / methanol	Ignitable, Corrosive	Monomethyl p-phenol sulfate	Toxic
Bleach / hydrochloric acid / lead / tin	Ignitable, Toxic, Corrosive	Myristic acid	Non Regulated-Toxic
Bleach / phosphorus / sulfur / water	Corrosive, Toxic	Mytomycin C	Toxic
Bleach / potassium ferricyanide	Corrosive	tert-butyl propionate	Ignitable
Bleach / propanol	Corrosive, Flammable	n-ethyl maleimide	Corrosive
Bleach / sulfur / water Ph=2	Corrosive	nickel chloride	Non Regulated-Toxic
Bleach / Tin	Corrosive	ninhydrin and DMSO	Non Regulated-Toxic
Bleach / water	Corrosive	Nitric Acid	Corrosive
Bleach 5% / Methanol 3% / water	Corrosive	Nitric Acid > %70	Corrosive Oxidizing
Bleach 98% / Palladium 1% / Tin 1%	Corrosive	nitric acid / lead / arsenic	Corrosive, Toxic
bleach solution	Corrosive	Nitric Acid / sulfuric acid	Corrosive
bleach, acetone, water	Corrosive, Ignitable	Nitric Acid / Water	Corrosive
bleach, hexane, methanol	Corrosive, Ignitable	nitric acid 2% / Water	Corrosive
bleach, tin, selenium	Corrosive, Toxic	Nitric Acid 30 %	Corrosive
bleach, water, sulphur	Corrosive, Toxic	Nitric Acid 5% / water 95 %	Corrosive
bleomycin sulfate / yeast extract media	Non Regulated-Toxic	nitro thio cyano benzoic acid	Non Regulated-Toxic
Blue agrose / thimerosol 0.02%	Toxic	Nitrocellulose	Ignitable
Bouin's solution (1% picric acid)	Ignitable, Corrosive	n-lauroylsarcosine	Non Regulated-Toxic
broken mercury thermometer	Toxic	N-methyl N-nitro N-nitrosoguanidine	Ignitable
Bromine / methylene chloride / alkyl sulfide	Toxic, Corrosive, Reactive	n-methyl -pyrrolidinone / sodium borate	Non Regulated-Toxic
bromo chloro trifluoroethane	Toxic	N-methylpyrrolidone / piperidine	Corrosive, Ignitable
bromo isopropanate / ethyl acetate / hexane	Ignitable	Nocodazole	Non Regulated-Toxic
bromoacetic acid	Corrosive	salts	Non Regulated-Toxic
bromobutyric acid	Corrosive	Octadecyltrichlorosilane	Ignitable, Corrosive, Toxic
bromoethylamine hydrobromide		octanol, dichloromethane	Ignitable, Toxic
buffered saline	Non Regulated-Toxic	oil	Toxic
Butanethiol contaminated debris	Toxic	oil contaminated debris	Non Regulated-Toxic
butanol	Ignitable	Oil soaked debris	Toxic
Butanol / ethidium bromide	Ignitable	osmium metal 1% / water	Toxic

Chemicals / Mixtures	Hazards	Chemical	Hazards
Butanol / methylene chloride	Toxic, Ignitable	osmium tetroxide	Toxic
cacodylic acid (solid)	Toxic	Osmium tetroxide / silver solution	Toxic
cadmium chloride / barium chloride / cobalt chloride	Toxic	p-Aminobenzoic acid	Non Regulated-Toxic
cadmium chloride	Toxic	paraffin oil	Toxic
cadmium solution	Toxic	paraffin wax / xylene (liquid)	Ignitable
Calcium carbonate	Non Regulated-Toxic	paraformaldehyde	Ignitable
calcium chloride	Non Regulated-Toxic	Paraformaldehyde 4%	Non Regulated-Toxic
calcium dichloride	Non Regulated-Toxic	Paraformaldehyde 4% / Formamide 50% / Water	Non Regulated-Toxic
calcium hydride	Ignitable, Reactive	paraformaldehyde solution	Non Regulated-Toxic
Calcium hydroxide / dichloromethane	Corrosive, Toxic	Pentane / triethylammonium chloride	Ignitable
calcium hydroxide, water	Corrosive	petroleum distillates based aerosols	Ignitable
caprylic acid	Corrosive	petroleum distillate based grease	Ignitable
carbon	Ignitable	phenol	Toxic
Carbon / palladium	Ignitable	Phenol / chloroform	Toxic
Celite / cupric chloride	Corrosive	phenol / chloroform debris	Toxic
Cellite / Tin hydroxide	Corrosive	Phenol / water	Toxic
ceric ammonium nitrate / chromium	Oxidizer, Toxic	phenol contaminated debris	Toxic
cesium chloride	Non Regulated-Toxic	phenyl isocyanate	Toxic, Ignitable, Reactive
cesium chloride	Non Regulated-Toxic	Phenylmethanesulfonyl chloride	Corrosive, Reactive
Cesium chloride / ethidium bromide	Non Regulated-Toxic	phenylene diamine dihydrochloride	Toxic
cesium chloride / isopropanol	Ignitable	phenylenediamine	Toxic
Cesium flouride	Non Regulated-Toxic	phenylhydrazine hydrochloride	Toxic
cesium chloride / ethidium bromide / isopropanol	Ignitable	Phosphate buffer solution	Non Regulated-Toxic
ethyltrimethylammonium bromide	Toxic	phosphoric acid	Corrosive
chlorobenzene	Toxic	phosphoric acid solution	Corrosive
Chloroform	Toxic	phosphorous pentoxide	Corrosive, Reactive
chloroform / acetone	Toxic, Ignitable	Phthalic acid / phthalic anhydride	Toxic
chloroform / dichloroform / hexane	Toxic, Ignitable	Picric acid / acetic acid / formalin	Ignitable, Corrosive
Chloroform / dichloromethane / hexane	Toxic, Ignitable	Piperidine	Corrosive, Ignitable
chloroform / ether / methylene chloride	Toxic, Ignitable	platinum, celite	Toxic
Chloroform / ethyl acetate	Toxic, Ignitable	polyvinyl pyrrolidone	Non Regulated-Toxic
Chloroform / Hexane / methanol	Toxic, Ignitable	Potassium cyanide contaminated debris	Toxic, Reactive
Chloroform / hexane / methylene chloride	Toxic, Ignitable	potassium cyanide solution	Toxic, Reactive
Chloroform / methylene chloride / ethyl acetate	Toxic, Ignitable	potassium dichromate	Oxidizer
Chloroform / methylene chloride / hexane	Toxic, Ignitable	potassium ferricyanide	Non Regulated-Toxic
chloroform / phenol	Toxic	Potassium ferricyanide / potassium sulfate	Non Regulated-Toxic
Chloroform / Phenol contaminated debris	Toxic	potassium ferricyanide / potassium sulfate / sand	Non Regulated-Toxic
Chloroform / phenol pipet tips	Toxic	Potassium flouride	Toxic
Chloroform / phenol pipet tips and tubes	Toxic	potassium hydroxide	Corrosive
chloroform / phenol Test tubes	Toxic	Potassium hydroxide / potassium ferricyanide	Corrosive
Chloroform/Dichloromethane/ethyl acetate	Toxic, Ignitable	potassium hydroxide / sodium hydroxide	Corrosive
chloramphenicol	Non Regulated-Toxic	Potassium hydroxide contaminated debris	Corrosive

Chemicals / Mixtures	Hazards	Chemical	Hazards
Chloropyridine / silica gel	Toxic	Potassium (meta) periodate	Oxidizer
Cholic acid	Non Regulated-Toxic	potassium permanganate	Oxidizer
chromic acid	Corrosive, Toxic	propane	Ignitable
Chromic acid / hexane / methanol	Corrosive, Ignitable, Toxic	propanol / acetonitrile / water	Ignitable
chromium potassium sulfate / water	Toxic	propidium iodide	Non Regulated-Toxic
Chromium / dimethylformamide	Ignitable, Toxic	propidium iodide / 1% formaldehyde	Non Regulated-Toxic
chromium / lead / nitric acid	Corrosive, Toxic	propidium iodide contaminated debris	Non Regulated-Toxic
Chromium / nitric acid	Toxic, Corrosive	propionyl chloride	Ignitable, Corrosive, Reactive
Chromium / sulfuric acid	Toxic, Corrosive	Propylene Glycol Methyl Ether Acetate	Ignitable
chromium chloride	Toxic	Propylene glycol mono-methylether acetate	Ignitable
Chromium chloride / methylene chloride	Toxic	propylene oxide	Ignitable
chromium chloride contaminated debris	Toxic	proteinase K	Non Regulated-Toxic
Chromium dichloride / sand	Toxic	p-terphenyl	Non Regulated-Toxic
Chromium oxide / methylene chloride	Toxic	pump oil	Toxic
Chromium salts	Toxic	pump oil / hydrogen flouride 1%	Toxic
Chromium trioxide	Toxic, Oxidizer	pump oil soaked debris	Toxic
chromium trioxide / water	Toxic, Corrosive, Oxidizer	pyridine	Ignitable
Chromium/hydrochloric acid / Dichloromethane	Toxic, Corrosive	pyridine contaminated paper towels	Toxic
cinnamoyl chloride	Corrosive, Reactive	pyridine, hydrochloric acid	Ignitable, Corrosive
Cobalt / water / zinc	Non Regulated-Toxic	pyridine, potassium hydroxide	Ignitable, Corrosive
copper bromide/pyrrolidine cont. debris	Non Regulated-Toxic	pyridinium dichromate, hydrochloric acid	Oxidizer, Corrosive
copper carbonate / lithium hydroxide	Corrosive	pyridinium dichromate, magnesium sulfate	Oxidizer
Copper chloride / silver chloride	Toxic, Corrosive	Quinoline 1% containinated plastic and glass	Non Regulated-Toxic
Copper cyanide / sodium chloride	Toxic	Selenium	Toxic
Copper dihydrate	Non Regulated-Toxic	Selenium Contaiminated Towels	Toxic
Copper oxide / molecular sieves	Non Regulated-Toxic	selenium, lead, zinc	Toxic
Copper pivulate	Non Regulated-Toxic	selenomethionine	Toxic
Copper sulfate	Non Regulated-Toxic	Selenium chloride	Toxic
copper sulfate / 1% formaldehyde	Non Regulated-Toxic	Silica Gel	Non Regulated-Toxic
Copper sulfate / water	Non Regulated-Toxic	Silica Gel / 1% dichloromethane	Toxic
cresol	Toxic	Silica Gel / activated carbon	Ignitable
Cyanide on filter paper	Toxic, Reactive	Silica Gel / ethanethiol / containinated gloves	Toxic
cyanogen bromide (liquid)	Toxic	Silica gel / sand	Non Regulated-Toxic
cyclohexane	Ignitable	silica gel / Sodium Sulfate	Non Regulated-Toxic
decahydronaphthalene/rhodamine perchlorate	Toxic	Silica gel, hexane, ethyl acetate,dichloromethane	Ignitable, Toxic
Dextran	Non Regulated-Toxic	silicone oil	Toxic
dextrose	Non Regulated-Toxic	Sillica gel containinated debris	Non Regulated-Toxic
diaminobenidine tetrahydrochloride	Non Regulated-Toxic	Silver Fixer	Toxic
diaminobenzidene	Non Regulated-Toxic	Silver	Toxic
diazabicyclo octane	Ignitable, Toxic	silver nitrate	Oxidizer
Dibromoacetic acid	Corrosive	silver nitrate solution	Oxidizer
dichlorodimethylsilane	Ignitable, Corrosive, Reactive	Silver nitrate solution 1%	Toxic

Chemicals / Mixtures	Hazards	Chemical	Hazards
dichloromethane	Toxic	silver salt	Toxic
Dichloromethane / Dimethyl Formamide / Methanol	Ignitable	silver stain	Toxic
Dichloromethane / dimethyl sulfide	Ignitable, Toxic	Silver/ acetic acid	Toxic, Corrosive
Dichloromethane / ethanol / methanol	Ignitable, Toxic	soda lime	Corrosive
Dichloromethane / ether / hexane	Ignitable, Toxic	sodium acetate	Non Regulated-Toxic
Dichloromethane / Ethyl acetate	Ignitable, Toxic	sodium azide	Toxic
Dichloromethane / ethyl acetate / hexane	Ignitable, Toxic	Sodium azide 0.01% / water 99%	Toxic
dichloromethane / Ethyl Acetate / Toluene	Ignitable, Toxic	sodium azide solution	Toxic
Dichloromethane / hexane	Ignitable, Toxic	Sodium azide solution 1%	Toxic
Dichloromethane / methyl ammonium chloride	Toxic	Sodium bicarbonate	Non Regulated-Toxic
Dichloromethane / Methyl Iodide	Toxic	Sodium bicarbonate solution	Non Regulated-Toxic
dichloromethane / trichloroethylene	Toxic	sodium bicarbonate, water	Non Regulated-Toxic
Dichloromethane contaminated paper towels	Toxic	sodium borate solution	Non Regulated-Toxic
dichloromethane, acetone, methanol	Ignitable, Toxic	Sodium carbonate	Non Regulated-Toxic
dichloromethane, hexane	Ignitable, Toxic	sodium cyanide	Toxic, Reactive
dicyclohexylamine	Corrosive	sodium cyanide / water	Toxic, Reactive
Diethyl ether	Ignitable	sodium cyanide / tetrahydrofuran solution	Toxic, Ignitable
Diethyl ether / ethyl acetate / hexane	Ignitable	sodium cyanide / water	Toxic, Reactive
Diethyl ether / heptane	Ignitable	sodium cyanoborohydride	Ignitable, Reactive
diethyl ether / petroleum ether	Ignitable	sodium diatrizoate	Non Regulated-Toxic
Diethyl ether / tetrahydrofuran	Ignitable	Sodium fluoride	Toxic
diethyl ether, sodium bicarbonate	Ignitable	Sodium hydride / sodium hydroxide / mineral oil	Ignitable, reactive, corrosive
diethyl pyrocarbonate	Toxic	sodium hydroxide	Corrosive
diethyl zinc	Reactive, Ignitable	sodium hydroxide / ethanol	Ignitable, Corrosive
diethylaluminum chloride	Ignitable, Reactive, Corrosive	Sodium Hydroxide / sodium azide 5%	Corrosive, Toxic
diisobutylaluminum chloride	Ignitable, Reactive, Corrosive	Sodium hydroxide / tetrahydrofuran	Corrosive, Ignitable
diisopropylamine	Ignitable, Corrosive	sodium hydroxide solution	Corrosive
Dimethyl aluminum chloride	Ignitable, Reactive, Corrosive	sodium hypochlorite based bleach	Corrosive
dimethyl formamide	Ignitable	sodium iodide	Non Regulated-Toxic
dimethyl formamide contaminated vials	Ignitable	Sodium lauryl sulfate / tin solution	Non Regulated-Toxic
dimethyl naphthalene	Non Regulated-Toxic	Sodium meta vanadate	Non Regulated-Toxic
Dimethyl sulfide	Ignitable	sodium periodate solution	Oxidizer
dimethyl sulfide 5% / hydrochloric acid	Ignitable, Corrosive	sodium sulfate	Non Regulated-Toxic
dimethyl sulfide, sodium hypochlorite	Ignitable, Corrosive	sodium sulfate / debris	Non Regulated-Toxic
dimethyl sulfoxide	Non Regulated-Toxic	solvents	Ignitable
dimethyl sulfoxide	Non Regulated-Toxic	spent copper cyanide 1% / water 100%	Toxic
Dimethyl sulfoxide / methyl sulfoxide	Non Regulated-Toxic	Spermidine	Corrosive
Dimethyl sulfoxide / triethylamine debris	Ignitable, Corrosive	sucrose	Non Regulated-Toxic
dimethyldichlorosilane / toluene	Ignitable, Corrosive, Reactive	sulfur, octanol contaminated debris	Toxic
dimethylformamide, bleach	Ignitable, Corrosive	sulfuric acid	Corrosive
Dimethylsulfoxide / methanol	Ignitable	Tartartic acid solution	Non Regulated-Toxic
Dinitrophenylhydrazine solution	Ignitable	t-butyl ammonium fluoride	Toxic

Chemicals / Mixtures	Hazards	Chemical	Hazards
Dioxane / methanol / phosphorous pentasulfide	Ignitable, reactive	tetracycline hydrochloride	Non Regulated-Toxic
Dioxane / tetrahydrofuran	Ignitable	Tetrahydrofuran	Ignitable
Diphosphorus pentoxide	Corrosive, Reactive	tetrahydronaphthalene	Toxic
dithiothreitol	Non Regulated-Toxic	1,1,3,3-tetraisopropylidisiloxane	Non Regulated-Toxic
emetine dihydrochloride hydrate	Non Regulated-Toxic	tetramethyl ammonium hydroxide	Corrosive
Epoxy resin based glue	Ignitable	tetramethyl ethylenediamine	Ignitable, Corrosive
epoxy resins	Ignitable	Thallium ethoxide	Ignitable, Reactive
Ethanethiol	Ignitable	Thallium salts	Toxic
Ethanethiol / ethyl acetate	Ignitable, Toxic	thioglycolic acid	Non Regulated-Toxic
Ethanol	Ignitable	Tin contaminated debris	Non Regulated-Toxic
Ethanol / acetic acid 1%	Ignitable	Tin solution	Non Regulated-Toxic
Ethanol / bleach	Ignitable, Corrosive	Titanium tetrachloride	Corrosive, Reactive
ethanol / dimethyldichlorosilane / hexanes	Ignitable, Toxic, Reactive	toluene	Ignitable
Ethanol / ether	Ignitable	toluidine blue solution	Toxic
Ethanol / hexane / mercury .01%	Ignitable, Corrosive	Tributyltin chloride	Corrosive, Reactive
Ethanol / methanol	Ignitable	tributyltin hydride	Ignitable, Reactive
ethanol / paraformaldehyde	Ignitable	Trichloroacetic acid	Corrosive
ethanol / phenyl phenol solution	Ignitable, Toxic	Trichloroacetic acid	Corrosive
ethanol / raney nickel	Ignitable, Reactive	Trichloroethane	Toxic
Ethanol / xylene	Ignitable	Trichloroethylene	Toxic
ethanol, acetic acid, sulfuric acid	Ignitable, Corrosive	triethylamine	Ignitable, Corrosive
ethanol, hydrochloric acid	Ignitable, Corrosive	Triethylamine / Acetic Anhydride pH=2	Corrosive, Ignitable
ether / ethyl acetate / hexane	Ignitable	triethylborane	Ignitable, Reactive
Ether / hexane	Ignitable	Trifluoroacetic acid	Corrosive
Ether / hexane / methylene chloride	Ignitable, Toxic	Trifluoroacetic acid / dichloroethylene	Toxic, Corrosive
ethidium bromide	Non Regulated-Toxic	trifluoroacetic acid, alcohol	Corrosive, Ignitable
ethidium bromide	Non Regulated-Toxic	trimethylamine	Ignitable, Corrosive
ethidium bromide / diaminobenzidine	Non Regulated-Toxic	trimethylpsoralen	Non Regulated-Toxic
ethidium bromide / iron chloride / ferrazine	Non Regulated-Toxic	Trimethylsilyl cyanide	Toxic, Ignitable
Ethidium bromide / water	Non Regulated-Toxic	Trioxalen 0.01 % / water 99.9%	Non Regulated-Toxic
ethidium bromide contaminated papers	Non Regulated-Toxic	Triphenyl tetrazolium	Non Regulated-Toxic
ethidium bromide gels	Non Regulated-Toxic	tris (2-carboxy-ethyl) phosphine hydrochloride	Non Regulated-Toxic
ethidium bromide solution	Non Regulated-Toxic	trypan blue	Toxic
ethyl 2-bromopropionate	Non Regulated-Toxic	trypsin	Non Regulated-Toxic
Ethyl acetate	Ignitable	Tunicamycin	Toxic
Ethyl acetate / triethylammonium chloride	Ignitable	Urea	Non Regulated-Toxic
Ethyl acetate / dichloromethane	Ignitable, Toxic	vinyl bromide	Ignitable
Ethyl acetate / dichloromethane / hexane	Ignitable, Toxic	vinyl magnesium bromide in tetrahydrofuran	Ignitable, reactive
Ethyl acetate / ether	Ignitable	xanthine	Non Regulated-Toxic
Ethyl acetate / ether / hexane	Ignitable	Xylene solution	Ignitable
Ethyl acetate / ethyl ether / hexane	Ignitable	Xylene, Calcium hypochlorite based bleach	Ignitable, Corrosive
Ethyl acetate / heptane / trimethylamine	Ignitable, Corrosive	Zinc carbonate	Non Regulated-Toxic

Chemicals / Mixtures	Hazards	Chemical	Hazards
ethyl acetate / hexane	Ignitable	Zinc powder	Ignitable, reactive
Ethyl acetate / hexane / ether	Ignitable		
Hazards Key			
Ignitable	If Alcohol content is <10% & Water content is >50% / default to Toxic		
Corrosive	Corrosive- The pH must be < 2 or >12		
Reactivity	The ability to react vigorously, decompose or condense under conditions of shock, pressure or temperature		
Oxidizer	Compounds that are capable of reacting with other chemicals to give off oxygen.		
Toxic	Is a D, F, P or U listed material per EPA. Oil is considered Toxic in Massachusetts		

updated 8/20/2013