

# COLUMBIA UNIVERSITY

## CHEMICAL SEGREGATION and STORAGE CHART

CLASS OF CHEMICALS	RECOMMENDED STORAGE METHOD	CHEMICAL EXAMPLES	INCOMPATIBLES SEE MSDS IN ALL CASES
<b>Compressed Gases - Flammable</b>	Store in a cool, dry area, away from oxidizing gases. Securely strap or chain cylinders to a wall or bench top.	Methane, Acetylene, Propane	Oxidizing and toxic compressed gases, oxidizing solids.
<b>Compressed Gases - Oxidizing</b>	Store in a cool, dry area, away from flammable gases and liquids. Securely strap or chain cylinders to a wall or bench top.	Oxygen, Chlorine, Bromine	Flammable gases.
<b>Compressed Gases - Poisonous</b>	Store in a cool, dry area, away from flammable gases and liquids. Securely strap or chain cylinders to a wall or bench top.	Carbon monoxide, Hydrogen sulfide	Flammable and/or oxidizing gases.
<b>Corrosives - Acids INORGANIC</b>	Store in a separate, lined/protected acid storage cabinet. *DO NOT store acids on metal shelves*	<b>Inorganic (mineral) acids</b> - Hydrochloric acid, Sulfuric acid, Chromic acid, Nitric acid.	Flammable liquids, flammable solids, bases, and oxidizers. <b>Organic acids</b>
<b>Corrosives - Acids ORGANIC</b>	Store in a separate, lined/protected acid storage cabinet. *DO NOT store acids on metal shelves*	<b>Organic acids</b> - Acetic acid, Trichloroacetic acid, Lactic acid	Flammable liquids, flammable solids, bases, and oxidizers. <b>Inorganic acids</b>
<b>Corrosives - Bases</b>	Store in a separate storage cabinet.	Ammonium hydroxide, Potassium hydroxide, Sodium hydroxide	Flammable liquids, oxidizers, poisons, and acids.
<b>Explosives</b>	Store in a secure location away from all other chemicals. Do not store in an area where they can fall.	Ammonium Nitrate, Nitro Urea, Sodium azide, Trinitroaniline, Trinitroanisole, Trinitrobenzene, Trinitrophenol/Picric acid, Trinitrotoluene (TNT).	All other chemicals.
<b>Flammable Liquids</b>	Store in a flammable storage cabinet. *Peroxide forming chemicals must be dated upon opening e.g. Ether, Tetrahydrofuran*	Acetone, Benzene, Diethyl ether, Methanol, Ethanol, Hexanes, Toluene	Acids, bases, oxidizers, and poisons.
<b>Flammable Solids</b>	Store in a separate dry cool area away from oxidizers, corrosives.	Phosphorus, Carbon, Charcoal	Acids, bases, oxidizers, and poisons.
<b>Water Reactive Chemicals</b>	Store in a dry, cool location. Protect from water and the fire sprinkler system, if applicable. Label location - WATER REACTIVE CHEMICALS-	Sodium metal, Potassium metal, Lithium metal, Lithium Aluminum hydride	Separate from all aqueous solutions, and oxidizers.
<b>Oxidizers</b>	Store in a spill tray inside a non-combustible cabinet, separate from flammable and combustible materials.	Sodium hypochlorite, Benzoyl peroxide, Potassium permanganate, Potassium chlorate, Potassium dichromate. The following are generally considered oxidizing substances: Peroxides, Superoxides, Chlorates, Perchlorates, Nitrates, Bromates,	Separate from reducing agents, flammables, and combustibles and organic materials.
<b>Poisons/Toxic</b>	Store separately in a vented, cool, dry, area in chemically resistant secondary containers.	Cyanides, heavy metal compounds, i.e. Cadmium, Mercury, Osmium	Flammable liquids, acids, bases, and oxidizers.

<b>General Chemicals - Non-Reactive</b>	Store on general laboratory benches or shelving.	Agar, Sodium chloride, Sodium bicarbonate, and most non-reactive salts	See MSDS
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Questions: Please contact the EH&RS/EH&S department at Morningside, LDEO, and Nevis 212-854-8749 or at CUMC 212-305-6780 and ask for a Lab Safety Officer This form is available <http://www.ehrs.columbia.edu/index.html>