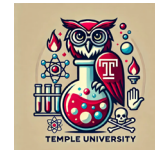


CHEMICAL SAFETY CHART

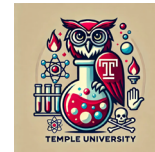
CHEMICAL SEGREGATION & STORAGE IN LABORATORIES



CLASS OF CHEMICALS	EXAMPLES	STORAGE RECOMMENDATIONS	INCOMPATIBLES
Refer to Safety Data Sheet (SDS) and applicable EHRs Chemical Safety Guide for chemical specific information.			
CORROSIVES-ORGANIC ACIDS 	- Acetic Acid - Trichloroacetic Acid - Lactic Acid	- Separate corrosive cabinet or on protected shelving using chemically resistant secondary containment. - Do not store under the sink. - Do not store acids on metal shelving	- Flammables - Bases - Oxidizers - Inorganic Acids
CORROSIVES-INORGANIC ACIDS 	- Hydrochloric Acid - Sulfuric Acid - Phosphoric Acid	- Separate corrosive cabinet or on protected shelving using chemically resistant secondary containment. - Store concentrated Sulfuric acid ($\geq 93\%$) in a separate secondary container. - Do not store under the sink. - Do not store acids on metal shelving	- Flammables - Bases - Oxidizers - Organic Acids
CORROSIVES-OXIDIZING ACIDS 	- Nitric Acid - Perchloric Acid - Chromic Acid	- Separate corrosive cabinet or on protected shelving using chemically resistant secondary containment. - Store concentrated Nitric acid ($\geq 68\%$) in a separate secondary container. - Do not store under the sink. - Do not store acids on metal shelving	- Flammables - Inorganic Acids - Organic Acids - Bases
CORROSIVES- BASES 	- Ammonium hydroxide - Potassium hydroxide - Sodium hydroxide	- Separate corrosive cabinet away from all acids or on protected shelving using chemically resistant secondary containment. - Separate organic from inorganic bases - Do not store under the sink. - Store solutions of inorganic hydroxides in labeled polyethylene containers	- Flammable Liquids - Oxidizers - Acids - Poisons

CHEMICAL SAFETY CHART

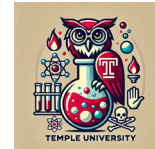
CHEMICAL SEGREGATION & STORAGE IN LABORATORIES



CLASS OF CHEMICALS	EXAMPLES	STORAGE RECOMMENDATIONS	INCOMPATIBLES
Refer to Safety Data Sheet (SDS) and applicable EHRS Chemical Safety Guide for chemical specific information.			
EXPLOSIVES 	- Picric Acids (dry) - Tri-nitro compounds - Heavy metal azides	- Store in a secure location away from other chemicals. - Protect from falls, impacts, and shocks. - Contact EHRS for specific guidelines.	All other chemicals
FLAMMABLE SOLIDS 	- Charcoal - Carbon - Phosphorus - Magnesium	- Keep in a dry, cool area away from oxidizers and corrosives. - Flammable storage cabinet or refrigerator rated for flammable/hazardous storage/explosion proof. - Do not store in cold rooms or warm rooms. - Limited amounts (< 10 gallons) of flammable liquids may be stored outside flammable storage cabinets. - Venting a flammable storage cabinet is not recommended. Contact EHRS before venting. - All bottles of peroxide-forming chemicals must have the received date marked on the container; when the bottle is first opened, the container must be marked with the date opened	- Acids - Bases - Oxidizers - Poisons/Toxics
FLAMMABLE LIQUIDS 	- Ethanol - Methanol - Acetone - Benzene - Xylene - Toluene		
OXIDIZERS 	- Hydrogen Peroxide - Potassium dichromate - Halogens - Nitrate compounds	- Store in secondary containment separately from flammables. - Do not store in flammable storage cabinets, or refrigerator/freezers. - Do not store on bare(uncoated) wood or other combustible material.	- Reducing Agents - Flammables - Organic materials

CHEMICAL SAFETY CHART

CHEMICAL SEGREGATION & STORAGE IN LABORATORIES



CLASS OF CHEMICALS	EXAMPLES	STORAGE RECOMMENDATIONS	INCOMPATIBLES
Refer to Safety Data Sheet (SDS) and applicable EHRs Chemical Safety Guide for chemical specific information.			
WATER REACTIVE CHEMICALS 	- Sodium metal - Potassium metal - Lithium metal	- Store in a dry, cool area in chemically resistant secondary container away from potential spray from fire sprinklers and other water sources. - DO NOT store under the sink. - Label location "water-reactive storage"	- All aqueous solutions - Oxidizers
POISONS/TOXIC 	- Cyanides - Heavy metal compounds (e.g., Cadmium, Mercury, Osmium, Oxalic Acid, Phenol, Formic Acid)	- Store in a dark, dry, ventilated, cool area in an unbreakable chemically resistant secondary container (polyethylene) - Store volatile toxins with evaporation rate above 1.0 - (ether =1.0) in flammable cabinet - Store non-volatile liquid poisons in a refrigerator or cabinet; amounts less than 1 liter can be stored in a cabinet above bench level, ONLY if the cabinet has sliding doors (not swinging).	- Flammables - Corrosives
CARCINOGENS/TERATOGENS 	- Acrylamide - Chloroform - Formaldehyde - Mercury compounds	- Secure location, limit access to only trained users - Use a chemically resistant secondary container. - Store separate from flammable and corrosive materials to avoid damage to container	- Flammables - Corrosives
IRRITANTS/CHEMICALS 	- Tris Bases - Sodium chloride - Non-reactive salts	Store on shelves, or laboratory benches or shelving preferably behind glass doors and below eye level with like chemicals.	Consult SDS

CHEMICAL SAFETY CHART

CHEMICAL SEGREGATION & STORAGE IN LABORATORIES



CLASS OF CHEMICALS	EXAMPLES	STORAGE RECOMMENDATIONS	INCOMPATIBLES
Refer to Safety Data Sheet (SDS) and applicable EHRs Chemical Safety Guide for chemical specific information.			
COMPRESSED GASES- FLAMMABLE 	- Methane - Acetylene - Propane	- Store in a cool, dry, and well-ventilated area. - Store away from oxidizers, open flames, sparks, or other sources of heat or ignition. - Securely strap or chain cylinders to a wall or bench top. - Do not store lecture-sized gas cylinders in cabinets with flammable liquids.	- Oxidizers - Toxic/Poisons
COMPRESSED GASES- OXIDIZING 	- Oxygen - Chlorine - Bromine	- Store in a cool, dry, and well-ventilated area. - Store away from flammable gases and liquids. - Securely strap or chain cylinders to a wall or bench top. - Do not store lecture-sized gas cylinders in cabinets with flammable liquids.	- Flammables
COMPRESSED GASES- TOXIC/POISONS 	- Carbon monoxide - Hydrogen Chloride - Hydrogen Sulfide	- Store in a cool, dry, and well-ventilated area. - May need to be stored in a gas cabinet and/or exhausted enclosure-Consult with EHRs. - Securely strap or chain cylinders to a wall or bench top. - Do not store lecture-sized gas cylinders in cabinets with flammable liquids.	- Flammable - Oxidizers