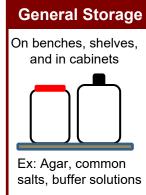
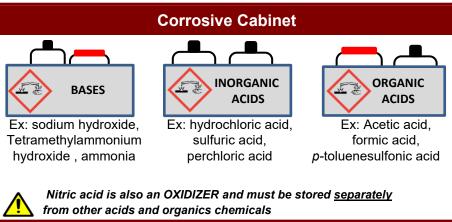
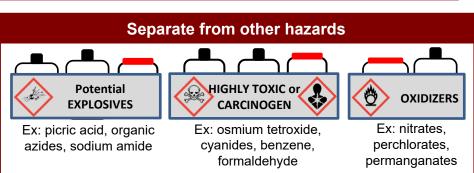
## CHEMICAL STORAGE AND SEGREGATION

This document provides guidance for chemical storage and must be used in conjunction with specific storage conditions from the Safety Data Sheet

## Flammable cabinets Flammable approved refrigerators PYROPHORICS & WATER REACTIVES Ex: diethyl zinc, sodium, lithium hydride diethyl ether Domestics fridges are not suited for flammables







## **Common Incompatibles**

Incompatible: Flammables and Oxidizers
Incompatible: Acids and Bases
Incompatible: Inorganic acids and Organic acids
Incompatible: Water reactives and Aqueous solutions/alcohols

## **General Process**

- 1. Isolate highly reactive (i.e. pyrophorics, water reactives, and potentially explosive compounds), strong oxidizers and highly toxic or carcinogenic compounds.
- 2. Prioritize flammable cabinet and flammable approved refrigerator/freezer space (required for >10 gallons of flammables), for storing flammable liquids.
- 3. Within the flammable cabinet or flammable approved refrigerator/freezer use secondary containers to store pyrophorics and to group different hazard classes (i.e. peroxide forming compounds, carcinogens, toxic compounds)
- 4. Prioritize corrosive cabinets to store acids and bases. Be sure to segregate inorganic acids from organic acids and all acids from bases with the use of compatible secondary containers. Isolate corrosives with additional hazards such as oxidizers, high degree of acute toxicity, and carcinogens.
- 5. If no corrosive cabinets are available store corrosives in secondary containment but as low as possible avoiding ground storage or underneath sinks. Maintain proper segregation of acids and bases.
- The remaining chemicals should be stored where appropriate maintaining segregation of incompatibles.
- <u>DO</u> use secondary containers to contain potential spills and segregate chemicals if lab space is limited
- ✓ **DO** date chemicals upon opening (required for peroxide forming chemicals)
- ✓ DO label all storage areas
- DO limit the amount of hazardous chemicals you purchase and store in your lab
- DO store volatile toxic and odoriferous chemicals in ventilated cabinets
  - **Do not** store chemicals just by alphabetical order
  - **✗ Do not** store any chemicals under the sink
  - **Do not** store hazardous liquids above eye level
  - **\* Do not** store chemicals on the floor and do not stack chemicals



