

# Chemical Segregation and Storage

## Flammables



### Instructions:

1. Store unused quantities in approved flammable cabinet.
2. If cold storage is required, store in an explosion proof refrigerator. Never store in a standard refrigerator or freezer.
3. Keep chemicals away from all ignition sources.

**EXAMPLES:** Acetone, Alcohols, Methyl isobutyl ketone

## Corrosives



### Instructions:

1. Store in plastic, polypropylene or polyethylene, secondary containment.
2. Inorganic and Organic Acids and Bases must be segregated. Separate secondary containment within the same storage cabinet is acceptable.

### **EXAMPLES:**

**Inorganic Acids**-Hydrochloric acid, Sulfuric acid

**Inorganic Bases**-Sodium hydroxide, Potassium hydroxide

**Organic Acids**-Acetic acid, Oxalic acid

**Organic Bases**-Diethylamine

## Oxidizers



### Instructions:

1. Store in cabinet away from flammables, combustibles, and organic chemicals.

**EXAMPLES:** Sodium hypochlorite, Benzoyl peroxide, Potassium chlorate, Potassium permanganate, Nitric Acid

The following are generally considered oxidizing chemicals: Nitrates, Nitrites, Permanganates, Persulfates, Perchlorates, Halogens, Peroxides, Chromates, Bromates

## Reactives



### Instructions:

1. Always store in cabinet away from other chemicals.
2. Store in cool, dry areas away from heat, ignition and water sources.
3. Keep lids and caps tightly closed.
4. While stored, keep away from edges to prevent chemicals from falling off shelves.

### **EXAMPLES:**

**Explosives**-Azides, Perchlorates

**Water Reactives**-Hydrides, Borohydrides

**Air Reactives**-Metal Powders

- Avoid storing chemicals on the floor or on workbenches. If these areas must be used, store chemicals in secondary containment.
- When possible, purchase chemicals in smallest quantities needed. Store small, working quantities in the laboratory.
- ALL chemical containers must be properly labeled with the container's contents spelled out completely. No abbreviations.
- If unsure about a certain chemical classification, please refer to the Safety Data Sheet (SDS) for more information.