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| **Class of**  **Chemicals** | **Recommended Storage Method and**  **Additional Concerns** | **Common Chemical Examples** | **Common Incompatibles. (Always Consult MSDS)** |
| **Flammable**  **Liquids** | **An approved flammable storage cabinet**  **\*Remember: peroxide-forming chemicals must be dated upon delivery and opening (consult Peroxide Forming-Chemical Handout)** | **Ethanol, Methanol, Acetone, Xylene, Toluene,**  **\*Diethyl Ether, \*Tetrahydrofuran** | **Oxidizers, reactives, acids,**  **bases** |
| **Toxics** | **In a ventilated, dry, cool area in a chemically resistant secondary container** | **Chloroform, Cyanides, Heavy Metal Compounds**  **(e.g. Cadmium, Mercury)** | **Flammable liquids, acids, bases, reactive, oxidizers please**  **consult EHS for assistance** |
| **Corrosive**  **Acids- Inorganic** | **Store in corrosives cabinet (marked ACID), or on protected shelving and in secondary containment**  **\*Do NOT store acids on metal shelving** | **Hydrochloric Acid, Sulfuric Acid, Phosphoric**  **Acid, Chromic Acid, Nitric Acid** | **Flammable liquids, flammable solids, bases and oxidizers,**  **organic acids, cyanides, sulfides** |
| **Corrosive**  **Acids- Organic** | **Store in corrosives cabinet, on protected shelving,**  **secondary containment away from inorganic acids**  **\*Do NOT store acids on metal shelving** | **Acetic Acid, Trichloroacetic Acid, Formic Acid** | **Flammable liquids, flammable**  **solids, bases and oxidizers, inorganic acids, cyanides, sulfides** |
| **Corrosive- Bases-**  **Inorganic** | **Store in corrosives cabinet, or on protected shelving away from acids** | **Ammonium Hydroxide, Potassium Hydroxide, Sodium Hydroxide** | **Flammable liquids, acids, oxidizers, organic bases** |
| **Corrosive**  **Bases-Organic** | **Store in corrosive cabinet, and separated from acids and inorganic bases** | **Hydroxylamine, Tetramethylethylamine**  **Diamine, Triethylamine** | **Acids, oxidizers, hypochlorites, inorganic bases** |
| **Flammable**  **Solids** | **Cool dry area away from oxidizers and corrosives** | **Carbon, Charcoal, Paraformaldehyde** | **Acids, bases, oxidizers** |
| **Oxidizers** | **Store in secondary containment with non- combustibles or inorganic material** | **Perchlorates, Permanganates, Nitrates** | **Flammables, combustibles and organic materials** |
| **Water Reactive** | **Store in a cool dry location. Protect from fire**  **sprinkler system and sources of water. Label area for water-reactive storage** | **Sodium, Lithium, and Potassium Metals,**  **Sodium Borohydride** | **Aqueous solutions, oxidizers,**  **water sources. Please consult EHS, and MSDS for specific information** |
| **Explosives** | **Store in a secure location away from other chemicals, store in areas away from shock or friction** | **Trinitrophenol, Picric Acid, Diazoisobutylnitrile** | **Please consult the MSDS and**  **EHS.** |
| **General Stock**  **Chemicals** | **Storage on laboratory benches, or shelves with like**  **chemicals** | **Sodium bicarbonate, Agar, Salt buffer** | **See chemical-specific MSDS** |