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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 storage)  | Ethanol, Methanol, Acetone, Xylene, Toluene, and peroxide formers like \*Diethyl Ether and \*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 Risk Management 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\*** \*Nitric acid is a strong oxidizing agent and should be stored by itself with secondary containment  | 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 Risk Management, and SDS for specific information  |
| Explosives  | Store in a secure location away from other chemicals, store in areas away from shock or friction  | Trinitrophenol, Diazoisobutylnitrile  | Consult the SDS and Risk Management.  |
| General Stock Chemicals  | Storage on laboratory benches, or shelves with like chemicals  | Sodium bicarbonate, Agar, Salt buffer  | See chemical-specific SDS  |
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| **A**  | **Combatable Organic bases**  |
| **B**  | **Combatable Pyrophoric & water reactive**  |
| **C**  | **Combatable Inorganic Bases**  |
| **D**  | **Combatable organic Acids**  |
| **E**  | **Combatable Oxidizers including Peroxides**  |
| **F**  | **Combatable Inorganic acids not including Oxidizers or Combustibles**  |
| **G**  | **Not Intrinsically Reactive or Flammable or Combustible**  |
| **J**  | Poison Compressed Gas  |
| **K**  | **Compatible Explosives or other Highly Unstable material**  |
| **L**  | **Non-reactive Flammables and Combustibles including Solvents**  |
| **X**  | **Incompatible with all other Storage Groups**  |
| **Storage Groups J, K and X needs consultation with OH&S** **Consult SDS for specific storage requirements**  |

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If space does not allow storage groups to be kept in separate cabinets, the above scheme can be used with extra care taken to provide uncrowded and carefully monitored conditions.

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