# EHSO Chemical Storage Guidelines

**Note:** These are general guidelines and are not a substitute for referring to the Safety Data Sheet (SDS) for specific storage, handling and disposal guidance.

<table>
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<th>Hazard Class</th>
<th>WHAT (Details)</th>
<th>HOW (Recommended Storage Practices)</th>
<th>WHERE (Recommended Location)</th>
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| Flammables                       | Flammables that are also corrosive or toxic may be stored in the flammables cabinet | - Store in Flammables Cabinet  
- Outside of a Flammables Cabinet, store up to 16 L per 100 ft² of lab space  
- Store away from heat sources (ovens, incubators) | **Flammables Cabinet**            |
| Mineral Acids                    | Hydrochloric Acid, Phosphoric Acid                                            | - Store in Corrosives/Acid cabinet  
- Store in secondary containment using a tray/bin | **Corrosives Cabinet**        |
| Oxidizing Acids                  | Perchloric Acid, Nitric Acid, Sulfuric Acid, Chromic Acid                     | - Store in Corrosives/Acid Cabinet  
- Store in secondary containment using a tray/bin  
- Separate from Mineral and Oxidizing Acids using a tray/bin  
- Minimize quantities when storing in same cabinet as Mineral and Oxidizing Acids | **Wooden Cabinet**                |
| Organic Acids                    | Acetic Acid, Trifluoroacetic Acid, Formic Acid                               | - Store in Corrosives/Acid Cabinet  
- Store in secondary containment using a tray/bin  
- Separate from Mineral and Oxidizing Acids using a tray/bin  
- Minimize quantities when storing in same cabinet as Mineral and Oxidizing Acids | **Lab Shelving**                  |
| Bases                            | Sodium Hydroxide, Ammonium Hydroxide                                          | - Liquids in secondary bin/tray on shelf  
- Solids on shelf                                                                 | **Wooden Cabinet**                |
| Toxic and Health Hazards         | Includes carcinogens, teratogens, mutagens and acutely toxic                  | - Store separate from non-toxic materials  
- Chemicals that have flammable, oxidizer or corrosive hazard should be stored based on that hazard | **Lab Shelving**                  |
| Irritants and Harmful            | Chemicals that have flammable, oxidizer or corrosive hazard should be stored based on that hazard | - Liquids in secondary bin/tray on shelf  
- Solids on shelf  
- Separate from toxic materials | **Lab Shelving**                  |
| Oxidizers                        | Separate liquid and solid oxidizers                                           | - Liquids in secondary bin, either at room temperature (<8% v/v solutions) or in a refrigerator (>8%)  
- Solids in secondary bin on low shelf, away from flammable materials | **Refrigerator**                  |
| Explosives                       | Contact EHSO for further assistance                                          | - Store away from heat sources (ovens, incubators)                                                | **Lab Shelving**                      |