# Chemical Storage Guide

Always refer to the SDS. This guide is not meant to cover all possible scenarios. Contact the Chemical Safety Group with questions – 434-982-4911

<table>
<thead>
<tr>
<th>Flammable liquids</th>
<th>Acids</th>
<th>Bases</th>
<th>Oxidizers</th>
<th>Toxics</th>
<th>Compressed gases</th>
<th>Poison inhalation</th>
<th>Water reactive</th>
<th>Liquid nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not store with acids or oxidizers</td>
<td>Do not store with bases, flammables, or cyanides</td>
<td>May be kept with flammable liquids if in secondary containment</td>
<td>Do not store under the sink</td>
<td>Avoid storage on wooden shelves</td>
<td>Secure at all times even when empty</td>
<td>Store in a vented gas cabinet or a chemical fume hood</td>
<td>Store in a well ventilated area</td>
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<tr>
<td>Only store in refrigerators rated for flammables</td>
<td>Do not store with acids</td>
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<td></td>
<td>Consult EHS before storing 240L tanks</td>
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<tr>
<td>Keep quantities to a minimum (no 5 gallon cans permitted)</td>
<td>Do not store under the sink</td>
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<tr>
<td>Amounts over two(2) gallons: Store in an approved flammable cabinet</td>
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</tbody>
</table>

### Examples

- **Acetone**
- **Methanol**
- **Ether**
- **Hexane**

- **Sulfuric acid**
- **Hydrochloric acid**
- **Nitric acid**
- **Acetic acid**

- **Sodium hydroxide**
- **Potassium hydroxide**
- **Bleach**

- **Silver nitrate**
- **Ammonium persulfate**
- **Sodium periodate**

- **Sodium cyanide**
- **Sodium azide**
- **Ethidium bromide**

- **Helium**
- **Nitrogen**
- **Oxygen**
- **Hydrogen**

- **Carbon monoxide**
- **Chlorine gas**
- **Ethylene oxide**
- **Ammonia gas**

- **Sodium borohydride**
- **Hydrazine**
- **Sodium metal**
- **Phosphorus**

- **LN**

### Special circumstances

- **Combustible liquids** (i.e. toluene) can be stored in the flammable cabinet if there is room.
- **Some acids are flammable** (i.e. Acetic acid) but still store them with the acids.
- **Some bases are flammable** (i.e. ethanol amine) but still store them with the bases.
- **Some acids are oxidizers** (i.e. nitric acid) but still store them with the acids.
- **Inspect containers regularly.**
- **Container volumes less than 5 liters (i.e. lecture bottles) can be stored lying down.**
- **Consult with EHS when storing or using these materials.**
- **There may be enough moisture in the air to react these materials. Use caution.**
- **Liquid nitrogen tanks vent loudly periodically. Do not be concerned.**

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UVA Environmental Health and Safety