

## Corrosive Storage Guidelines

EH&S recommends segregating acids and bases from each other and storing them in dedicated corrosive cabinets. These can be the cabinets under the fume hoods in laboratories, cabinets in the lab, or manufactured cabinets purchased from a laboratory supply company.

Caution should be used when using corrosive chemicals to prevent them from coming in contact with skin, other chemicals, or materials. Personal protective equipment like compatible gloves, lab coats, and closed toe shoes should be worn while handling corrosive chemicals. Laboratory surfaces should be cleaned after being contaminated with corrosive chemicals.

Inorganic acids (mineral acids) are derived from chemical reactions from inorganic minerals. These acids should be stored in a corrosive cabinet separate from organic acids.

<b>Inorganic acids/mineral acids:</b> Hydrochloric Hydrobromic Boric Perchloric Sulfuric Phosphoric Nitric Hydrofluoric acids	<b>DO NOT STORE WITH:</b> Acetic acid Chromic acid Hydrocyanic acids Aniline Carbon Hydrogen sulfide Flammable liquids or gases
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Oxidizing acids are highly reactive with most substances and other oxidizing acids. These acids can be stored in the same cabinet with either organic or inorganic acids providing that they be placed inside of secondary containers and are of small quantities (i.e. 1 to 2 bottles only).

<b>Oxidizing acids:</b> Nitric acid Sulfuric acid Phosphoric acid Perchloric acid Chromic acids	<b>DO NOT STORE WITH:</b> Acetic acid Acetone Alcohol Aniline Hydrogen sulfide Flammable liquids and gases Heavy metals
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Organic acids are organic compounds with acidic properties. These corrosives should be stored in the corrosive cabinet separate from inorganic acids.

<b>Organic acids:</b> Acetic Formic Citric Oxalic acids	<b>DO NOT STORE WITH:</b> Chromic acid Nitric acid Hydroxyl containing compounds Ethylene glycol Perchloric acid Peroxide Permanganates
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NOTE: This list is not a complete list of incompatible materials. It contains some of the more common incompatible materials. Always research the materials you work with in order to be safe.