

Acids

1. Process

- a. Mixing various concentrations of aqueous acid solutions.

2. Describe process, hazardous chemical, or hazard class

- a. Acids – nitric, sulfuric, hydrochloric, acetic, phosphoric.

3. Potential Hazards

- a. Avoid skin contact, serious burns may result.

4. Personal Protective Equipment

- a. Wear safety goggles, and nitrile, PVC, or neoprene gloves.
- b. Wear safety glasses or chemical splash goggles with face shield when using large quantities outside of hood.
- c. Wear rubber, neoprene, or PVC apron when using large quantities outside of hood.

5. Engineering Controls

- a. Use concentrated acids in fume hood. A safety shower and eyewash must be available and accessible when working with corrosive liquids.

6. Special Handling Procedures and Storage Requirements

- a. Store mineral acids together, separate from oxidizing agents and organic materials. Store acetic acid and other organic acids with the combustible organic liquids.

7. Spill and Accident Procedures

- a. Skin exposure: Rinse affected skin with plenty of water while removing contaminated clothing and shoes. Rinse for at least 15 minutes. Seek medical attention
- b. Eye exposure: splashes may cause tissue destruction. Wash eyes for at least 15 minutes, lifting the upper and lower eyelids. Seek medical attention immediately.
- c. Small spills: Do not attempt cleanup if you feel unsure of your ability to do so or if you perceive the risk to be greater than normal laboratory operations. Cover spill with broad spectrum absorbent. When absorbent is removed, wash contaminated area with bicarbonate solution. Large Spills: Notify others in area of spill. Turn off ignition sources in area. Evacuate area and post entrance ways to spill area. Call NAU Police at 43333 for spill response. Restrict person from area of spill or leak until cleanup is complete. Remain in area in safe location to assist the ORC Response.

8. Decontamination Procedures

- a. Use sodium bicarbonate and water.

9. Waste Disposal Procedures

- a. Contact the Office of Regulatory Compliance (ORC) for waste disposal.

10. MSDS Location

- a. Lab MSDS binder, or contact ORC.