SCHOOL SCIENCE LABORATORY SAFETY PROCEDURES - GENERAL PRACTICE GUIDELINES

NOTE: Always check for more specific local or state requirements.

WHAT PROTECTIVE EQUIPMENT (PPE) SHOULD BE USED/ WORN.

- Safety goggles must be worn when splash or spark hazards exists.
- Lab aprons should be available and worn
- Gloves must be worn when working with corrosives.
- Fume hoods must be used when preparing dilutions and to control harmful vapors.
- Plexiglas shields must be used when explosion hazards are present

PROPER CLOTHING AND FOOTWEAR

- Long pants must be worn, without cuffs and not excessively baggy, unless lab aprons sufficiently cover the legs.
- Shoes should cover the entire foot. No sandals should be allowed.
- Long hair should be tied back.
- Jewelry should be removed prior to lab.

Vendors for PPE:

(To be added by each District.)

OBTAIN MATERIAL SAFETY DATA SHEETS.

- Internet sites

  – www.flinnsci.com
  – www.msdsprovider.net
  – www.fisher1.com
  – www.cdc.gov/niosh

- Vendors

  – Flinn Scientific
  – Fisher Chemicals
  – Baker Chemicals

HOW TO USE MATERIAL SAFETY DATA SHEET (MSDS)

The Material Safety Data Sheets (MSDS) provide information about chemicals and the hazards they pose. Although they are not mandated to follow a specific format, they all provide the same information.

MSDSs are divided into the following eight sections:

Supplier's Name

- Name, Address, and phone number of the manufacturer.
- Date the Chemical was prepared

Hazardous Ingredients and Identity Information

- Hazardous components of the chemical, including mixtures, listed by their scientific and common names.
- Safe exposure limits (PEL or TLV)

Physical Chemical / Characteristics

- Boiling point and melting point

- Vapor pressure, vapor density, and evaporation rate
- Solubility in water and specific gravity
- Description of how the chemical should look and smell under normal conditions.

Precautions for Safe Handling and Use

- Instructions on how to handle, dispose, and store the chemical.
- What to do if the chemical leaks, spills or released into the air.

Control Measures

- . Safety practices
- . Protective clothing and equipment

Emergency Contacts

Emergency **911**

For spills larger than can be easily handled with on-site cleanup supplies, or strong vapors, fire, or any incident involving injury or exposure.

Environmental Services:

Contract hazardous materials service: