

MATERIAL SAFETY DATA SHEET

SECTION I

Product Name: **Millon Reagent**
Size: 100ml, 500ml
Chemical name: none
Formula: Mercury.....2.08ml
 Nitric acid.....47.92ml
 Distilled water...50.00ml
Manufacturer: Carolina Biological Supply Company
Address: 2700 York Road
 Burlington, NC 27215
For Information on Health Hazards Call: 919 584-0381
For Other Information Call: 919 584-0381
Date: 12/2/85

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Components (%): Mercury 2%, Nitric acid 48%
TLV (Units): Mercury 0.1mgM3, Nitric acid 2ppm

SECTION III PHYSICAL DATA

Boiling Point (F.): no information
Vapor Pressure (mm Hg.): no information
Vapor Density (Air=1): no information
Specific Gravity (H2O=1): no information
Percent Volatile By Volume (%): no information
Evaporation Rate (=1): no information
Solubility in Water: 100 %
Appearance and Odor: Greenish, clear liquid

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): no information
Extinguisher Media: Use water spray.
Flammable Limits in Air % by Vol.: no information
Autoignition Temperature: no information
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: no information

SECTION VI HEALTH HAZARD DATA

Threshold Limit Value: See Section II
Effects of Over exposure: Chronic mercury poisoning may result with nervous irritability, weakness, tremors gingivitis, erethism and greying of lens of the eyes. Causes discoloration and corrosion of contact areas. May cause severe burns. Vapors are highly irritating to eyes, skin, and mucous membranes. Inhalation of vapors may cause acute or chronic pulmonary problems.
Acute Overexposure: no information
Chronic Overexposure: no information
Emergency and First Aid Procedures: Contact a physician immediately in

case of contact.

Inhalation: Remove to fresh air. Give artificial respiration as required. Contact a physician.

Eyes: Immediately flush with water while lifting lids for at least 15 minutes. Contact a physician.

Skin: Immediately flush with water for at least 15 minutes. Contact a physician.

Ingestion: Contact a physician immediately.

SECTION VI REACTIVITY DATA

Stability:

stable

Conditions to Avoid: Heat

Incompatibility (Materials to Avoid):

Hazardous Decomposition Products: Dangerous when heated; fumes are highly toxic, oxides of nitrogen.

Hazardous Polymerization:

will not occur

SECTION VII SPILL OR LEAK PROCEDURES

Steps to Be Taken In Case Material is Released or Spilled: Cover the spill with vermiculite or another absorbent. Neutralize with soda ash, slaked lime mixture (50-50). Mix and add water if necessary. Scoop up saturated absorbent and place into suitable container. Wash site with soda ash solution.

Waste Disposal Method: Neutralize and bury in approved hazardous waste land fill, in accordance with Federal, State and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Fume hood, self-contained breathing apparatus

Ventilation:

Local Exhaust: X

Mechanical (general):

Special:

Other:

Protective Gloves: rubber

Eye Protection: Splash-proof, vapor-proof goggles, face shield, do not wear contact lenses

Other Protective Clothing or Equipment: Lab coat/apron, eye wash, safety shower, rubber boots

SECTION IX SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Protect from physical damage. Provide good ventilation and protect from direct sunlight. Separate from oxidizers and flammables.

Other Precautions: To avoid ingestion inhalation of mercury, there should be no eating or smoking in the immediate areas of use of storage. Wash thoroughly and frequently after use.

Date issued: 12/4/85

Approved by:

Mary Ann Foust