

## MATERIAL SAFETY DATA SHEET

## SECTION I

Product Name: Diphenylamine reagent  
Size: 100ml, 500ml  
Chemical name: does not apply  
Formula: Diphenylamine.....0.5g  
          Distilled water.....20.0ml  
          Sulfuric acid.....100.0ml  
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: revised 12/5/85

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Components (%): 80%  
TLV (Units): Sulfuric acid LD50 2140mg/Kg, TLV: 1mg/m3

## SECTION III PHYSICAL DATA

Boiling Point (F.): no information available  
Vapor Pressure (mm Hg.): no information available  
Vapor Density (Air=1): no information available  
Specific Gravity (H2O=1): no information available  
Percent Volatile By Volume (%): 99%  
Evaporation Rate (water=1): <1  
Solubility in Water: 100%  
Appearance and Odor: Clear, odorless, syrupy liquid

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): none  
Extinguisher Media: dry chemical  
Flammable Limits in Air % by Vol.: none  
Autoignition Temperature: none  
Special Fire Fighting Procedures: Care should be taken not to spray water into acid as it produces heat and steam, and results in splattering.  
Unusual Fire and Explosion Hazards: Highly reactive and capable of igniting finely divided combustible materials on contact.

## SECTION VI HEALTH HAZARD DATA

Threshold Limit Value: See Section II  
Effects of Over exposure: Causes severe burns. Corrosive to all body tissue. Can cause severe acid burns. Inhalation and ingestion of fumes can cause damage to lungs.  
Acute Overexposure: no information available  
Chronic Overexposure: no information available  
Emergency and First Aid Procedures:  
Inhalation: Remove to fresh air. Give artificial respiration if victim is not breathing. Call a physician.  
Eyes: Flush eyes with plenty of water for at least 15 minutes. Call a physician.  
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.  
Ingestion: If conscious, give tap water, milk, or milk of magnesia.

Call a physician.

## SECTION VI REACTIVITY DATA

### Stability:

unstable:

stable:X

Conditions to Avoid: Avoid adding water to the acids since a large amount of heat is produced.

Incompatibility (Materials to Avoid): Water, alkali, alkali metals, carbides, chlorates, fulminates, nitrates, picrates, powdered metals and finely divided combustible materials..

Hazardous Decomposition Products: Sulfur oxides

Hazardous Polymerization:

may occur:

will not occur:X

Conditions to Avoid: no information available

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to Be Taken In Case Material is Released or Spilled: Cover the contaminated surface with sodium bicarbonate or a soda ash, slaked lime mixture (50-50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash down the drain with excess water. Wash site with soda ash solution.

Waste Disposal Method: Dispose of according to federal, state, local environmental regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Gas mask or respirator with acid gas cartridges.

Ventilation:

Local Exhaust:

Mechanical (general): X

Special:

Other:

Protective Gloves: Rubber

Eye Protection: Splash-proof goggles/Face shield; do not wear contact lenses.

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

## SECTION IX SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Do not allow water to get into container because of violent reaction. Keep in tightly closed container. Loosen closure cautiously.

Other Precautions: Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Wash thoroughly after handling.

Approved by: