

M74

## MATERIAL SAFETY DATA SHEET

## SECTION I

5086-3511  
1086-3513  
486-3515  
69

Product Name: Formalin, 5%  
Size: 1L, 4L, 20L  
Chemical name: does not apply  
Formula: Formaldehyde, 37%.....5.0ml  
Distilled water.....95.0ml  
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 12/3/85

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Components (%): Formaldehyde 1.85%  
TLV (Units): 3ppm in air, LD50 Oral rat 800mg/Kg

## 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 (%): 100%  
Evaporation Rate ( =1): no information available  
Solubility in Water: 100%  
Appearance and Odor: Colorless liquid, pungent irritating odor.

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): no information available  
Extinguisher Media: not flammable  
Flammable Limits in Air % by Vol.: no information available  
Autoignition Temperature: no information available  
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: Moderately dangerous because of irritating vapor which could be present in toxic concentrations.

## SECTION VI HEALTH HAZARD DATA

Threshold Limit Value: See Section II  
Effects of Over exposure: Skin and mucous membrane irritation.  
Sensitizer. Can cause violent vomiting and diarrhea if swallowed.  
Acute Overexposure: no information available  
Chronic Overexposure: Possible Carcinogen. May cause hypersensitivity.  
Emergency and First Aid Procedures:  
Inhalation: Remove to fresh air. Give artificial respiration, if breathing is stopped  
Eyes: Get prompt treatment from physician after flushing with large amounts of water.  
Skin: Flush with large amounts of water.  
Ingestion: Induce vomiting, give large amounts of milk.

## SECTION VI REACTIVITY DATA

Stability:  
unstable:

stable: Stable if inhibited with alcohol.

Conditions to Avoid: no information available

Incompatibility (Materials to Avoid): Avoid easily oxidized material, alkalies, nitrogen dioxide, perchloric acid and aniline, and performic acid.

Hazardous Decomposition Products: no information available

Hazardous Polymerization:

may occur: Non-hazardous polymerization may occur

will not occur:

Conditions to Avoid: no information available

#### SECTION VII SPILL OR LEAK PROCEDURES

Steps to Be Taken In Case Material is Released or Spilled: Cover sodium bisulfite, wash down drain with a large excess of water. Wash site with soap solution.

Waste Disposal Method: Dissolve in flammable solvent and burn in an approved incinerator equipped with an afterburner in accordance with all federal, state, and local regulations.

#### SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Self-contained breathing apparatus for industrial or pilot plant operations

Ventilation:

Local Exhaust:

Mechanical (general): X

Special:

Other:

Protective Gloves: Rubber

Eye Protection: Splash proof goggles; do not wear contact lenses

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

#### SECTION IX SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep well closed in a moderately warm area. Minimum temperature 29F. Protect against physical damage.

Other Precautions: no information available

Approved by: *Dan Thomas*