

# MATERIAL SAFETY DATA SHEET

## SECTION I PRODUCT AND COMPANY IDENTIFICATION

**COMMON NAME**

Glycerine

**PRODUCT FILE NUMBER**

Not applicable

**MANUFACTURER'S NAME**

Meriam Instrument

**ADDRESS**

10920 Madison Ave.

**CITY, STATE, ZIP**

Cleveland, Ohio 44102

**PRODUCT MODEL NUMBER**

Not applicable

**PRODUCT USE**

Case Fill Fluid

**EMERGENCY PHONE NUMBERS**

1-800-424-9300 (US), 1-703-527-3887 (International)

**ENGINEERING CONTROL DATA**

MSDS - A35811, Rev. K, EO 7002

Drawing - A34047

**DATE PREPARED**

7-07-11

## SECTION II HAZARDS IDENTIFICATION

### **ACUTE**

**EYES**

May cause mild irritation. Corneal injury is unlikely.

**SKIN CONTACT**

Prolonged or repeated exposure not likely to cause significant skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. May be absorbed in potentially harmful amounts when applied in large quantities to severe burns (second or third degree) over large areas of the body as part of a cream or other topical application. Absorption under such circumstances can elevate serum osmolality and may result in osmotic shock.

**INGESTION**

Low single dose toxicity. Small amounts swallowed incidental to normal handling operations are not likely to cause injury.

**INHALATION**

At room temperature, vapors are minimal due to physical properties. If heated or sprayed as an aerosol, airborne material may cause upper respiratory irritation. ACGIH TLV is 10 mg/m<sup>3</sup>. OSHA PEL is 5 mg/m<sup>3</sup> respirable (10 mg/m<sup>3</sup> total).

### **CHRONIC**

**CHRONIC EFFECTS OF EXPOSURE**

Repeated excessive exposure may cause increased fat levels in blood. Observations in animals include kidney, liver and gastrointestinal effects with very large oral doses.

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## SECTION III COMPOSITION/INFORMATION ON INGREDIENTS

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**1.Chemical Name:** Glycerine  
**CAS No:** 56-81-5  
**OSHA/PEL:** 15 mg/m<sup>3</sup> as total particulate, 5 mg/m<sup>3</sup> as respirable dust  
**ACGIH/TLV:** 5 mg/m<sup>3</sup> as mist  
**% :** 96

**2.Chemical Name:** Water  
**CAS No:** 7732-18-5  
**OSHA/PEL:** NE\*  
**ACGIH/TLV:** NE\*  
**% :** 4

\*Not Established

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## SECTION IV FIRST AID MEASURES

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### EYES

Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open.

### SKIN CONTACT

Remove contaminated clothing and wash off skin with soap and water. Wash contaminated clothes. If irritation develops, contact a physician.

### INHALATION

Remove person from contaminated area to fresh air, if effects occur. Avoid heated vapors. May cause severe irritation with overexposure. Seek medical attention. Administer oxygen if available. Bronchodilators, expectorants and antitussives may be of help.

### INGESTION

Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

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## SECTION V FIRE FIGHTING MEASURES

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### FLASH POINT

390°F 199°C

### METHOD USED

PMCC

### FLAMMABLE LIMITS (in Air % by Vol.)

### LEL

NE

### UEL

NE

### AUTO-IGNITION TEMPERATURE

698°F 370°C

### EXTINGUISHER MEDIA

Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) or protein foams may function, but much less effectively. Do not use direct water stream. Will spread fire.

### SPECIAL FIRE FIGHTING PROCEDURES

Evacuate area of all unnecessary personnel. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: Aldehydes, carbon monoxide, carbon dioxide. Violent steam generation or eruption may occur upon application of direct water stream.

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## SECTION VI ACCIDENTAL RELEASE MEASURES

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### **RESPONSE TO SMALL SPILLS**

Absorb with non-combustible absorbent material. Dispose of properly, prevent from entering sewers. The product is a non-hazardous waste when spilled material is disposed of defined in Resource Conservation Recovery Act (RCRA) regulations (40CFR261).

### **WASTE DISPOSAL**

Place in an appropriate disposal facility in compliance with Federal, State, and Local regulations.

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## SECTION VII HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Skin and eye contact should be avoided as good industrial practice. Wearing of protective gloves and eye protection is recommended. Wash hands and contaminated skin area after handling. Follow all warnings and precautions even after container is emptied. Wash thoroughly after handling or at the end of the shift.

**OTHER PRECAUTIONS:** Store in cool dry place away from strong oxidizers and acids. Keep container tightly closed when not in use. All handling equipment should be properly grounded to prevent the build-up of electrostatic charges. Storage area should be equipped with CO2 system. Handle in accordance with good industrial hygiene and safety practices.

**SECTION 7 NOTES:** Containers should not be opened until ready for use. Use clean non-sparking equipment and tools when handling.

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## SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

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### **RESPIRATORY PROTECTION**

Not typically required. If material is heated or sprayed, use an approved air-purifying respirator. If exposure exceeds permissible exposure limits wear a self-contained breathing apparatus in compliance with NIOSH/MSHA specifications. Comply with 29CFR 1910.134.

### **VENTILATION**

General (mechanical) room ventilation is generally satisfactory.

### **PROTECTIVE GLOVES**

Not generally required.

### **EYE PROTECTION**

Wear chemical goggles if there is likelihood of contact with eyes.

### **ADDITIONAL PROTECTIVE CLOTHING OR EQUIPMENT**

Eye wash fountains and safety showers should be available for emergency use.

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## SECTION IX PHYSICAL & CHEMICAL PROPERTIES

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### **BOILING POINT**

340° F 171° C

### **VAPOR DENSITY (AIR=1)**

3.1

### **EVAPORATION RATE**

NA

### **APPEARANCE & ODOR**

clear, odorless liquid

### **SPECIFIC GRAVITY (H<sub>2</sub>O=1)**

1.252 @ 25/25°C, minimum

### **SOLUBILITY IN WATER**

Miscible

### **MELTING POINT**

NA

### **VAPOR PRESSURE (mmHg)**

3 @ 20° C

### **REACTIVITY IN WATER**

NA

### **pH**

NA

**QUICK IDENTIFIER** – Glycerine

10920 Madison Avenue ♦ Cleveland, Ohio 44102 ♦ (216) 281-1100 FAX (216) 281-0228

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## SECTION X STABILITY AND REACTIVITY

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### STABILITY

Stable

### CONDITION TO AVOID

Avoid strong oxidizing agents (sodium hypochlorite, hypochlorous acid).

### INCOMPATIBILITY (Materials to Avoid)

Oxidizing material

### HAZARDOUS DECOMPOSITION PRODUCTS

Acrolein

### HAZARDOUS POLYMERIZATION

Will not occur

### CONDITIONS TO AVOID

NA

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## SECTION XI TOXICOLOGICAL INFORMATION

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### Chemical Listed as Carcinogen or Potential Carcinogen

#### National Toxicology Program

NA

#### I.A.R.C. Monographs

NA

#### OSHA

NA

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## SECTION XII ECOLOGICAL INFORMATION

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No Data Available

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## SECTION XIII DISPOSAL CONSIDERATIONS

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Disposal: Dispose of all cleanup materials in accordance with all Local, State, and Federal regulations.

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## SECTION XIV TRANSPORT INFORMATION

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Proper Shipping Name: N/A

Hazard Class or Division: N/A

Identification Number: N/A

Packing Group: N/A

Packing Authorization: N/A

IATA Packing Instructions: N/A

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## **SECTION XV REGULATORY INFORMATION**

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No Data Available

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## **SECTION XVI OTHER INFORMATION**

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- THIS PRODUCT IS FOR INDUSTRIAL AND LABORATORY USE ONLY.
  - Do not store in open, unlabeled or mislabeled containers.
  - Store in cool, dry place with adequate ventilation.
  - Keep away from flames and high temperatures.
  - For personal hygiene protection, we recommend that employees wash thoroughly after handling product. Always wash up before eating, smoking, and using toilet facilities.
  - Keep out of reach of children.
- HMIS rating HEALTH - 1 FLAMMABILITY - 0 REACTIVITY - 1
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## **DISCLAIMER OF LIABILITY**

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