



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

## MATERIAL SAFETY DATA SHEET

### GLYCERINE

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Glycerol, Glycyl Alcohol, 1,2,3-Propanetriol

CAS #: 56-81-5

DOT Hazard Class: Not Regulated

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Glycerine 96% min.  
Water 4% max.

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear, odorless, viscous liquid that presents little or no health hazard.

POTENTIAL HEALTH EFFECTS:

**Skin:** May cause skin irritation.

**Eyes:** May cause irritation.

**Inhalation:** May cause difficult breathing and/or coughing.

**Ingestion:** Not a hazard with normal industrial usage.

CARCINOGENICITY: Not Identifiable

#### SECTION 4 - FIRST AID MEASURES

**Skin:** Immediately wash skin with soap and water for at least 15 minutes.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** Wash out mouth with water.

**On All Of The Above:** Consult a physician if symptoms persist.

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### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: 198°C (390°F) (Closed Cup)

Flammable Limits: Not Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: Contact with strong oxidizers may cause fire or explosion.

Auto Ignition Temperature: 370° C

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### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spilled liquid with sand or earth. Place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

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### **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing fumes or vapors. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

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### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate vapors or fumes from the work area.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from liquid.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from fumes or vapors, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: TLV/TWA - 10 mg/m<sup>3</sup>  
PEL - 10 mg/m<sup>3</sup>

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 290°C (554°F)

Vapor Pressure (MM Hg): <0.1 @ 20°C

Vapor Density (AIR=1): 3.1

Specific Gravity (H2O=1): 1.26

Bulk Density: Not Applicable

Percent Volatile by Volume (%): Zero

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Complete

pH: Not Applicable

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## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide and Acrolein

KEEP AWAY FROM: Strong oxidizers, acids and bases.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION** - as Anhydrous Glycerine

LD<sub>50</sub> Oral Rat - 12.6 g/kg

LD<sub>50</sub> Intraperitoneal Mouse - 63 mg/kg

LD<sub>50</sub> Subcutaneous Rat - 100 mg/kg

LD<sub>50</sub> Intravenous Rat - 5566 mg/kg

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## **SECTION 12 - ECOLOGICAL INFORMATION**

Not Available

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## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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## **SECTION 14 - TRANSPORTATION INFORMATION**

Glycerine

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D.O.T. SHIPPING NAME:...Glycerine - Not Regulated

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not Listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Not considered a hazard.

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**SECTION 16 - OTHER INFORMATION**

NFPA Rating:	Health	1
	Flammability	1
	Reactivity	0

Reason for Issue: Changed Date

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