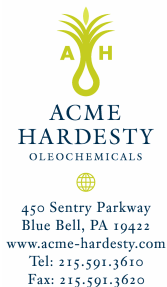


# Material Safety Data Sheet



PRODUCT NAME: GLYCERINE USP 99.7%

## CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: GLYCERINE USP 99.7%  
CAS#: 56-81-5  
DATE: March 29, 2008

DISTRIBUTOR: ACME-HARDESTY COMPANY  
ADDRESS: 450 Sentry Parkway  
Suite 104  
Blue Bell, PA 19422

TELEPHONE: (866) 226 – 3834  
FAX: (215) 591 – 3620  
EMERGENCY: CHEMTREC (800) 424-9300

## COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION	CHEMICAL FORMULA	CAS#	EC#	EC SYMBOL	EC R-PHRASES
1, 2, 3-propanetriol	$C_3H_8O_3/C_3H_5(OH)_2$	56-81-5	200-289-5	Not Applicable	Not Applicable

## HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Special hazards for man and environment: None  
Most Important Hazards: Reacts violently with strong oxidants

## PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE & ODOR: Colorless/odorless hygroscopic viscous liquid  
SOLUBILITY: Soluble in water (20°C)  
BOILING POINT, °C @ 760 mm of Hg: 554°F, 290°C (decomposition)  
SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.2607 @ 25/25°C  
DENSITY @ 75°C (g/ml): 1.263  
VAPOR PRESSURE, hPa @ 20°C: < 0.001  
MELTING POINT, °C: 17.8  
EVAPORATION RATE: < 1  
pH: Neutral  
CLOUD POINT: No data  
VISCOSITY @ 20°C: 1300 mPa's  
VOLATILES, %: Not more than 0.5%  
RELATIVE VAPOR DENSITY: 3.2  
MOLAR MASS: 92.1  
FLASH POINT, °C (Cleveland Open Cup): 177°C  
AUTO-IGNITION, °C: 400°C

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FIRE & EXPLOSION HAZARD DATA

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FLASH POINT, °C (Cleveland Open Cup): 177°C  
EXTINGUISHING MEDIA: Water, Fog, Alcohol resistant foam, dry powder, carbon dioxide or foam  
FIRE FIGHTING PROCEDURES: Wear positive pressure self-contained breathing apparatus if in confined space  
AUTO-IGNITION TEMP: 752°F, 400 °C  
FLAMMABLE LIMIT, %: Not Known  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Nothing specified  
SPECIAL HAZARDS: Avoid from strong oxidizing agents

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FIRST AID MEASURES

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INGESTION: Rinse mouth, drink plenty of water, see physician  
EYE CONTACT: Flush with water, take to doctor if necessary  
SKIN CONTACT: Absorb water from skin/body if contacted too long. Remove contaminated clothing, flush skin with water and soap.  
INHALATION: Not relevant

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ACCIDENTAL RELEASE MEASURES

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PERSONAL PRECAUTIONS: Avoid contact with skin and eyes.  
ENVIRONMENT PRECAUTIONS: Do not allow to flow into drainage system.  
CLEAN-UP METHODS: Collect leakage in sealable containers.  
Soak up with sand or other inert absorbent and remove to safe place.  
Flush away remainder with water.  
Dispose any grease or oily material.

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STABILITY/REACTIVITY DATA

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STABILITY: Stable  
CONDITIONS TO AVOID: Avoid contact with strong oxidizing agents  
MATERIALS TO BE AVOIDED: None known if used for its intended purpose.  
HAZARDOUS POLYMERIZATION: Will not occur  
DECOMPOSITION PRODUCTS: None known if used for its intended purpose.

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HEALTH HAZARD DATA

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ROUTES OF ENTRY:  
Inhalation: Remove to fresh air  
Skin: N/A  
Ingestion: Induce vomiting

HEALTH HAZARDS (acute & chronic): May cause eye irritation, flush with water for 5 minutes  
SIGNS & SYMPTOMS OF EXPOSURE: Heated vapors may cause severe irritation, administer oxygen with overexposure  
EMERGENCY & FIRST AID PROCEDURES: If exposed to heated vapors, remove to fresh air/administer oxygen and call physician

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HANDLING AND STORAGE

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HANDLING: Use gloves and wear goggle when handling

STORAGE: Keep in a cool and dry place, avoid extreme heat and cold.  
Store in a clean, dry preferably stainless steel vessel.  
In bulk, store at ambient temperature.  
Temperature higher than necessary degrades quality at rates dependent on time and temperature of exposure.

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EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE LIMIT: Not applicable

PERSONAL PROTECTIVE EQUIPMENT:

HAND/SKIN PROTECTION: Use rubber gloves

EYE PROTECTION: Wear approved safety goggles and face shield

INDUSTRIAL HYGIENE: Normal standard of industrial hygiene be observed

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TOXICOLOGICAL INFORMATION

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TOXICITY DATA: LD 50 (oral, rat) = 12600 mg/kg

LD 50 (rat) = >570 mg/m<sup>3</sup>/1H

CARCINOGENICITY: None

REPRODUCTIVE EFFECTS: No harmful effects expected

EFFECT OF OVER-EXPOSURE: No harmful effects expected

CHRONIC EFFECTS: No harmful effects expected

TARGET ORGANS: Not Applicable

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: No special requirements.

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ECOLOGICAL INFORMATION

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AQUATIC TOXICITY: Acute fish toxicity: LC 50 > 5000mg product/liter  
Acute bacteria toxicity: EC 50 > 10000mg product/liter

BIODEGRADABILITY: Biodegradable

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DISPOSAL CONSIDERATIONS

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DISPOSAL METHOD: Discarded product is not a hazardous waster under RCRA, 40 CFR 261  
CONTAINER DISPOSAL: Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residues from container and puncture or otherwise destroy empty container before disposal.

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TRANSPORT INFORMATION

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Not a hazardous material in accordance to RID/ADR/DOT; GGVS/GGVE; ADNRR; IMDG; ICAO-TI/IATA-DGR.

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REGULATORY INFORMATION

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All components of this product are listed on the following inventories:

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710  
DSL (Canada)  
EINECS/ELINCS (Europe)  
AICS (Australia)

OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazard Summary:

Physical Hazards: None  
Health Hazards: None

WHMIS Classification:

Non-controlled (Nonhazardous)

CEROLA and SARA Regulations (40 CFR 355, 370, and 372):

This material contains the following chemicals subject to the reporting requirements of SARA 313:

\*\*\*NO SARA 313 CHEMICALS FOR THIS CHEMICAL\*\*\*

SARA 311/312 Hazard Categories:

Immediate: YES  
Delayed: NO  
Fire: YES  
Pressure: NO  
Reactivity: NO

State Regulations: None

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OTHER INFORMATION

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We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment is provided with information contained in the product MSDS.

**OTHER PRECAUTIONS:** Always work safely around open hatches on bulk tanks. The low density makes flotation difficult for immersed person.

**HMIS Information:** Health: 1 Flammability: 1 Reactivity: 0 **NFPA Information** Health: 1 Flammability: 1 Reactivity: 0