

GLYCERINE

MATERIAL SAFETY DATA SHEET

5/13/02

I. PRODUCT INFORMATION

PRODUCT NAME: Glycerine
TRADE NAME: Glycerine 99 1/2% USP
CHEMICAL NAME & SYNONYMS: Glycerol 1,2,3-Propanetriol
C.A.S. REGISTRY#: 56-81-5
CHEMICAL FAMILY: Polyhydroxy Alcohol
FORMULA: CH₂OHCHOHCH₂OH
D.O.T. IDENTIFICATION #: N.A.
D.O.T. LABEL: N.A.

II. HAZARDOUS INGREDIENTS

INGREDIENTS	PERCENT	TLV LEVEL.	PEL LEVEL
Glycerine (mist)	99.5%	10 mg/m ³	10 mg/m ³

NOTE: Glycerine (mist) PEL = 10 mg/m³, (Total Dust)=.5 mg/m³, (Respirable Fraction). TLV = 10 mg/m³, (Total Dust containing no asbestos and <1% free silica).

III. CHEMICAL AND PHYSICAL PROPERTIES

Boiling Point (Deg. F):	>550° F	Specific Gravity: 1.2-1.3
Freezing Point (Deg F):	64.4	
Vapor Pressure (MM HG):	<0.1	
Vapor Density (Air=1):	Not Available	
Solubility in Water:	Complete	
Percent Volatile by volume%:	Not Available	
Evaporation Rate:	Not Available	
Appearance and Odor:	Clear, Colorless Liquid	

IV. FIRE & EXPLOSION DATA SHEET

FLASH POINT (METHOD USED): >390 °F (PMCC).

FLAMMABLE LIMITS LEL: N.A. UEL: N.A.

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, and Alcohol

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area of unprotected personnel. Wear protective clothing, including a NIOSH – Approved self-contained breathing apparatus. Cool fire-exposed containers with water spray.

USUAL FIRE & EXPLOSION HAZARDS: Can react violently with strong oxidizers.

V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 10mg/m³ Total Dust; 5 mg/m³ Respirable Fraction Mist – (OSHA 29 CFR 1910.Z-1-A), (ACGIH 1988-89)

EFFECTS OF OVEREXPOSURE:

EYE CONTACT: Contact with material may result in slight irritation.

Prolonged or repeated contact may be more irritating.

SKIN CONTACT: May cause mild irritation to skin. Prolonged contact can be more severe.

INHALATION: Mist may irritate nasal passages.

INGESTION: Mildly toxic by ingestion.

OTHER:

ROUTES OF EXPOSURE: Product can affect the body if it is inhaled, comes in contact with the eyes or skin, or is swallowed.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. Call a physician immediately.

SKIN CONTACT: Flush area with water while removing contaminated clothing and shoes. Follow by washing with soap and water. Do not reuse clothing or shoes until cleaned. If irritation persists, get medical attention.

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VI. HEALTH HAZARD SHEET

INGESTION: If conscious, give large amounts of water, and then induce vomiting by touching back of throat with fingers. Keep head below hips to prevent aspiration of liquid into lungs. CALL A PHYSICIAN IMMEDIATELY. NEVER induce vomiting or give anything by mouth to an unconscious victim.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. CALL A PHYSICIAN.

VII. REACTIVITY DATA

STABILITY: Stable Unstable

CONDITIONS TO AVOID: Avoid contact with heat, sparks, electric arcs, other hot surfaces and open flames.

INCOMPATIBILITY: Strong Oxidizing Agents, Acetic Anhydride

HAZARDOUS DECOMPOSITION PRODUCTS: May react with strong oxidizing agents to cause an explosion.

HAZARDOUS POLYMERIZATION: May Occur May not occur

VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Use proper safety equipment. Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of property. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

WASTE DISPOSAL METHOD: Observe all Local, State and Federal Regulations. Dispose of at approved Waste Treatment Facility. If approved, flush to sewer with large quantities of water. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

IV. SPECIAL PROTECTION INFORMATION

CONSULT SAFETY EQUIPMENT DISTRIBUTOR

RESPIRATORY PROTECTION: If recommended Exposure Limits are exceeded wear NIOSH-Approved respirator for dusts and mists. Do not exceed limits established by the respirator manufacturer.

VENTILATION: Maintain adequate ventilation. Do not use in closed confined space. Keep levels below recommended Exposed Limits. To determine exposure levels, monitoring should be performed regularly. Avoid mist formation.

PROTECTIVE GLOVES: Rubber (Latex)

EYE PROTECTION: Chemical Safety Goggles, Safety Glasses

OTHER PROTECTION EQUIPMENT: Eyewash station, Safety shower, Rubber apron, Protective clothing.

X. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool, well-ventilated area away from all sources of ignition and out of direct sunlight. Keep containers tightly closed. Store away from incompatible materials. Do not store in unlabeled or mislabeled containers.

OTHER PRECAUTIONS: Avoid contact with skin and eyes. Do not swallow. Avoid dust or mist formation. Use with adequate ventilation. Avoid breathing mists or dusts. Wash thoroughly after handling. Do not eat, drink, or smoke in work area.

XI. SUPPLEMENTAL HEALTH INFORMATION

CARCINOGEN CONTENT

%PPM	Ingredient	IARC NTP OSHA
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NOTE: This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC, OSHA.

LD50 ORAL	Rat: 12600 mg/kg
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LD50 SKIN	Rat-Subcutaneous: 100 mg/kg
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LC50 Inhalation	No Data
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The data in the Material Safety Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as a warranty or representation for which AEGIS Tools International® assumes legal responsibility. This information is provided solely for your consideration, and verification