

SECTION I. NAME

Product **GLYCERINE**

Chemical Synonyms **Glycerol, 1,2,3-Propanetriol**
 Formula **C₃H₈O₃**
 Unit(s) Size **500 ml, 1, 5, 4, 20 Liters**
 C.A.S. No. **56-81-5**

1	0	HEALTH	1
2	1	FLAME	1
3	0	REACTIVITY	0

HAZARD RATING

CLASSIFICATION: 1 2 3 4

SECTION II. HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)

Glycerine

(Glycerine is not a hazardous or toxic material. It is included on the - GHS List (generally recognized as safe).

SECTION III. PHYSICAL DATA

Melting Point (°F)	17.8°C	Specific Gravity (H ₂ O=1)	1.2607 (25/25°C)
Boiling Point (°F)	Decomposes 290°C	Percent Volatile by Volume (%)	Negligible at room temp.
Vapor Pressure (mm Hg)	1.0 @ 125°C	Evaporation Rate (Ether)	Greater than 1
Vapor Density (Air=1)	3.17		
Solubility in Water	Complete (100%)		
Appearance and Odor	Clear, colorless to pale yellow, syrupy liquid; no odor.		

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	370°F (188°C) (COC)	Flammable Limits in Air, % by Volume, Temperature	None at -300°F to 302°F
Extinguisher	Carbon dioxide (CO ₂); dry chemical (ABC); water spray.		

SPECIAL FIREFIGHTING PROCEDURES

Autoignition temperature 698°F (370°C).
 In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials (Chromium trioxide, potassium chlorate, or potassium permanganate. May produce explosion).

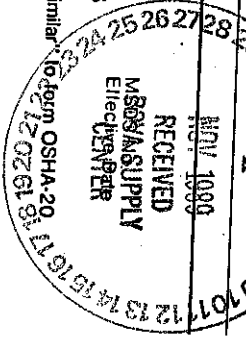
D.O.T. NON-REGULATED



FREY SCIENTIFIC

905 HICKORY LANE MANSFIELD OHIO 44905

Approved by U.S. Department of Labor "essentially similar"



SECTION V. HEALTH HAZARD DATA

Threshold Limited Value

Effects of Overexposure

Emergency and First Aid Procedures

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SECTION VI. REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Absorbs moisture from air. Excessive temperature or heat.
Incompatibility (Materials to avoid)	X		Oxidizing agents, (Sodium hypochlorite, Hypochlorous acid, Nitric acid, Potassium Chlorate, Chromium trioxide, etc.)
Hazardous Decomposition Products			Acrolein

SECTION VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Small spills: Flush to sewer with copious amounts of water. Large spills: Absorb in sand, vermiculite or other available material and place in a suitable container for disposal by incineration.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Respiration Protection	None needed in normal laboratory handling at room temperature and a liquid state.
Ventilation	Local Exhaust: None needed. Mechanical (General): None needed.
Protective Gloves	None needed.
Eye Protection	Chemical safety glasses.

SECTION IX. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

When not in use, store in a cool, dry place away from strong oxidizers and fire hazards. Wash thoroughly after handling.

Other Precautions

Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
 The information contained herein is furnished without warranty of any kind. Employer should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

Rev. No. 1 Date 11/2/87 Approved Wanda P. ... Chemical Safety Coordinator