**Material Safety Data Sheet**

# GLYCERINE 50%

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# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

**CAROLINA**
www.carolina.com

## Section 1 - Product Description

**Product Name:** Glycerin 50%
**Product Code(s):** 74-6931, 74-6570, 74-6575
**Size:** 50 mL
**Chemical Name:** 1,2,3-propanetriol
**CAS Number:** 56-81-5
**Formula:** C3H5(OH)3
**Synonyms:** Glycerin, Glycerine, Trihydroxypropane
**Distributor:** Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 - Hazard Identification

**Emergency Overview:** Harmful if swallowed.
**Potential Health Effects:**
 **Eyes:** May cause irritation.                                              **Skin:** May cause irritation to skin.
 **Ingestion:** May cause gastrointestinal discomfort.          **Inhalation:** May cause irritation to respiratory tract.

## Section 3 - Composition / Information on Ingredients

**Principal Hazardous Components:** Glycerol (CAS#56-81-5) 50%
**TLV units:** ACGIH-TLV 10 mg/m3 (mist)(TWA)
**PEL units:** OSHA-PEL 5 mg/m3 (respirable fraction) (TWA)

## Section 4 - First Aid Measures

**Emergency and First Aid Procedures:**
  **Eyes** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  **Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
  **Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).
  **Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## Section 5 - Firefighting Procedures

**Flash Point (Method Used):** 199 C (CC)

**NFPA Rating:**
  **Health:** 1
  **Fire:** 1
  **Reactivity:** 0
**Extinguisher Media:** Use dry chemical, CO2 or appropriate foam.
**Flammable Limits in Air % by Volume:** LEL- 0.9% N/A
**Autoignition Temperature:** 370 c
**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
**Unusual Fire and Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products. Heating may cause an explosion.

# Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

# Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place. Keep away from ... (incompatible materials to be indicated by the manufacturer).

# Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.
**Ventilation:**
  **Local Exhaust:** Yes
  **Mechanical(General):** Yes
  **Special:** No
  **Other:** No
**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.
**Eye Protection:** Splash proof chemical safety goggles should be worn.
**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

# Section 9 - Physical Data

**Molecular Weight:** 92.09
**Boiling Point:** 290 C
**Vapor Density(Air=1):** 3.17
**Percent Volatile by Volume:**
**Solubility in Water:** Soluble

**Melting Point:** 18 C
**Vapor Pressure:** 0.0025 @ 50 C
**Specific Gravity (H2O=1):** 1.25
**Evaporation Rate (BuAc=1):** N/A
**Appearance and Odor:** Colorless, odorless solution.

# Section 10 - Reactivity Data

**Stability:** Stable
**Conditions to Avoid:** Heat and sources of ignition.
**Incompatibility (Materials to Avoid):** Oxidizers, Anhydrides, Alkalis, Chromium compounds,
**Hazardous Decomposition Products:** Aldehydes,
**Hazardous Polymerization:** Will not occur

# Section 11 - Toxicity Data

**Toxicity Data:** orl-rat LD50 12,600 mg/kg
**Effects of Overexposure:**
  **Acute:** See Section 2

**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.
**Conditions Aggravated by Overexposure:** N/A
**Target Organs:** N/A
**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

# Section 12 - Ecological Data

**EPA Waste Numbers:** N/A

# Section 13 - Disposal Information

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

# Section 14 - Transport Information

**DOT Proper Shipping Name:** N/A

# Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory
**Hazard Category for SARA Section 311/312 Reporting:** Acute

**Name List:**
Glycerol - No

**Chemical Category:**
Glycerol - No

**CERCLA Section 103 RQ(lb.):** Glycerol - No
**RCRA Section 261.33:** Glycerol - No

# Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH          American Conference of Governmental Industrial Hygienists
CAS Number     Chemical Services Abstract Number
CERCLA         Comprehensive Environmental Response, Compensation, and Liability Act
DOT            U.S. Department of Transportation
IARC           International Agency of Research on Cancer
N/A            Not Available
NTP            National Toxicology Program
OSHA           Occupational Safety and Health Administration
PEL            Permissible Exposure Limit
ppm            Parts per million
RCRA           Resource Conservation and Recovery Act
SARA           Superfund Amendments and Reauthorization Act
TLV            Threshold Limit Value
TSCA           Toxic Substances Control Act