



## Material Safety Data Sheet Glycerin Solution, 50% v/v (1+1)

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Glycerin Solution, 50% v/v (1+1)

**Catalog Numbers:**

LC14870

**Synonyms:**

Glycerol, glycerine solution.

**Company Identification:**

LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

### Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
56-81-5	Glycerin	50
7732-18-5	Water	50

### Section 3 - Hazards Identification

#### Emergency Overview

**Appearance:** *Clear, colorless solution***Caution!** May cause eye, skin, and respiratory tract irritation. This product is expected to be a low hazard for usual industrial handling.**Target Organs:** *None***Potential Health Effects****Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation. Low hazard for usual industrial handling.

**Ingestion:**

Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling. May cause headache.

**Inhalation:**

Low hazard for usual industrial handling. Inhalation of mists may cause respiratory tract irritation.



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**Chronic:**

No information found.

### Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if irritation develops.

**Skin:**

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops. Wash clothing before reuse.

**Ingestion:**

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Thermal decomposition or combustion may cause irritating and highly toxic gases to be generated. Use water spray to cool fire-exposed containers. Vapors may be heavier than air. They may collect in low-lying areas. Containers may explode when heated.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

400°C (752°F)

**Flash Point:**

193°C (379°F)

**NFPA Rating:**

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.

CAS# 56-81-5: Health- 1, Flammability- 1, Instability- 0.

**Explosion Limits:**

Lower: 1.1 Upper: n/a

### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in suitable container labeled for later disposal. Area may be washed down with water.



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### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion or inhalation. Wash clothing before reuse.

**Storage:**

Store capped at room temperature. Protect from heat and incompatibles.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	none listed	none listed	none listed
Glycerin	10 mg/m <sup>3</sup>	none listed	15 mg/m <sup>3</sup> TWA (total) 5 mg/m <sup>3</sup> TWA (respirable fraction)

**OSHA Vacated PELs:**

Glycerin: total dust: 10 mg/m<sup>3</sup> TWA; respirable fraction: 5 mg/m<sup>3</sup> TWA

**Personal Protective Equipment****Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>pH:</b>	Neutral
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	3.17 (Water = 1)
<b>Evaporation Rate:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	290°C (554°F)
<b>Freezing/Melting Point:</b>	5°C (41°F)
<b>Decomposition Temperature:</b>	Not available



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**Solubility in water:** Soluble  
**Specific Gravity/Density:** 1.14  
**Molecular Formula:** C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>  
**Molecular Weight:** 92.05

### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, ignition sources, excess heat.

**Incompatibilities with Other Materials:**

Oxidizing agents, strong acids, acetic anhydride, isocyanates, aliphatic amines, potassium permanganate, ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxides, sodium hydroxide.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:**

Has not been reported.

### Section 11 - Toxicological Information

**RTECS:**

CAS# 7732-18-5: ZC0110000.

CAS# 56-81-5: MA8050000.

**LD50/LC50:**

CAS# 56-81-5:

Inhalation, rat: LC50 = >570 mg/m<sup>3</sup>/1H

Oral, mouse: LD50 = 4090 mg/kg

Oral, rat: LD50 = 12600 mg/kg

Skin, rabbit: LD50 = >10 gm/kg

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

**Carcinogenicity:**

CAS# 56-81-5: Not listed as a carcinogen by ACGIH, IARC, NTP, OSHA, or CA Proposition 65.

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NTP, OSHA, or CA Proposition 65.

**Epidemiology:**

No information found

**Teratogenicity:**

No information found

**Reproductive:**

No information found

**Mutagenicity:**

No information found

**Neurotoxicity:**

No information found



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**Section 12 - Ecological Information**

No information found

**Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Not regulated

**Hazard Class:**

**UN Number:**

**Packing Group:**

**Section 15 - Regulatory Information**

**US Federal**

**TSCA:**

CAS# 56-81-5 is listed on the TSCA Inventory.

CAS# 7732-18-5 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ):**

None of the components are on this list.

**CERCLA/SARA Section 313:**

None of the components are on this list.

**OSHA - Highly Hazardous:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**US State**

**State Right to Know:**

Glycerin can be found on the following state Right-to-Know lists: Pennsylvania, Minnesota, Massachusetts.

**California Regulations:**

None.

**European/International Regulations**

**Canadian DSL/NDSL:**

CAS# 56-81-5 is listed on Canada's DSL List.

CAS# 7732-18-5 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List:**

CAS# 56-81-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.



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**Section 16 - Other Information**

MSDS Creation Date: February 18, 1998  
Revision Date: September 9, 2009

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