

MATERIAL SAFETY DATA SHEET

MSDS No: 0285.001.00
 Revision Date: March 15, 2012
 Approved by: Darius Nicpon

17 Colt Court
 Ronkonkoma, NY 11779
 800-381-8003

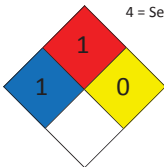
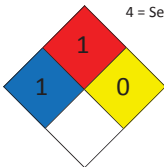
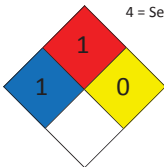
Section 1 Chemical Product and Company Name	
Product	GLYCERINE ITEM No: 65-5EA
Synonyms	Glycerin, Glycerol, 1,2,3-Propanetriol water solution
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	90%	Not established
Glycerin	56-81-5	10%	TWA: 10mg/m ³ (ACGIH)

Section 3 Hazards Identification																
CAUTION! MAY CAUSE SKIN AND EYE IRRITATION.	<table border="1"> <tr> <td>0 = Minimal</td> <td>Health</td> <td>1</td> </tr> <tr> <td>1 = Slight</td> <td>Flammability</td> <td>1</td> </tr> <tr> <td>2 = Moderate</td> <td>Physical Hazard</td> <td>0</td> </tr> <tr> <td>3 = Serious</td> <td>Personal Protection</td> <td>C</td> </tr> <tr> <td>4 = Severe</td> <td></td> <td></td> </tr> </table>	0 = Minimal	Health	1	1 = Slight	Flammability	1	2 = Moderate	Physical Hazard	0	3 = Serious	Personal Protection	C	4 = Severe		
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HMIS

Section 4 First Aid Measures	
INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Get immediate medical attention.	
INHALATION: Remove to fresh air. Get medical attention if necessary.	
EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.	
SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention if irritation develops.	

Section 5 Fire Fighting Measures								
May be combustible at high temperatures. Slightly flammable to flammable in presence of open flames and sparks, of heat.	<table border="1"> <tr> <td>0 = Minimal</td> <td rowspan="4">  </td> </tr> <tr> <td>1 = Slight</td> </tr> <tr> <td>2 = Moderate</td> </tr> <tr> <td>3 = Serious</td> </tr> <tr> <td>4 = Severe</td> <td></td> </tr> </table>	0 = Minimal		1 = Slight	2 = Moderate	3 = Serious	4 = Severe	
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Extinguishing Media: Use TriClass, dry chemical extinguisher, Carbon dioxide, Alcohol resistant foam, Water spray. Firefighters should use self-contained breathing apparatus and protective clothing. Product of combustion are carbon oxides.								
Flash point: 177°C/350.6°F open cup Autoignition temperature: 370-392 °C/698-739°F Explosion limits: Lower: Not available Upper: Not available								

Section 6 Accidental Release Measures	
Restrict unprotected personnel from the area. Contain the spill with an inert absorbent material and deposit in a sealed bag or container. For small spill use paper towel and place in trash. Ventilate and wash spill area with soap and water.	

Section 7 Handling and Storage	
Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.	
Handling: Use hood or with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor. Wash hands thoroughly after handling.	
Storage: Keep container tightly closed in cool, well-ventilated area.	

Section 8 Exposure Controls/ Personal Protection	
Engineering controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.	
Respiratory protection: Non should be needed if normal laboratory handling at room temperature.	

Section 9 Physical and Chemical Properties	
Physical state: Liquid. Appearance: Transparent, Colorless, Clear. Odor: Mild pH: not available Vapor Pressure (mm Hg): 0 @ 20°C Vapor Density: 3.17 Evaporation Rate: Not available Viscosity: Not available	Boiling point: 290°C/554F Melting point: 19°C/62.2F Freezing point: Not available Decomposition temp: not available Solubility: soluble in water, alcohol. Specific gravity (H₂O = 1): 1.26 at 20°C Percent volatile (%): Not available Molecular formula: C ₃ H ₈ O ₃ Molecular weight: 92.09

Section 10 Stability and Reactivity	
Chemical Stability: Stable Conditions to Avoid: High temperatures, sparks open flames and incompatible materials. Incompatibilities: Reactive with oxidizing agents such as chromium trioxide, potassium chlorate, potassium permanganate. Glycerin may react violently with acetic anhydride, aniline and nitrobenzene, chromic oxide, lead oxide, fluorine, phosphorous triiodide, acids. Hazardous decomposition: Carbon monoxide, carbon oxide	

Section 11 Toxicological Information	
Effects of overexposure: Low hazard for normal industrial handling, or normal workplace conditions. Skin: May cause mild skin irritation or dehydration. Eyes: Mild irritation to eyes. Symptoms may include stinging, tearing, redness. Inhalation: May cause irritation to respiratory track. However this material has a very low vapor pressure. Therefore not expected to be an inhalation hazard for normal handling. If heated or misted, the inhalation may cause irritation to respiratory track. Ingestion: Low hazard. Ingestion may cause gastrointestinal tract irritation with thirst, nausea, vomiting, abdominal discomfort, diarrhea. It may also affect behavior/CNS (excitement, general anesthetic, depression, headache, dizziness, confusion, muscle weakness). May affect the cardiovascular system. May affect liver. May affect urinary system. May affect blood.	

ORAL LD₅₀: 12600mg/kg [Rat], 4090mg/kg [Mouse]
 DERMAL LD₅₀: 21900mg/kg [Rat].
 INHALATION LC₅₀: >570mg/m³ 1h [Rat] (Mist)

Section 12 Ecological Information	
Ecotoxicity in water (LC ₅₀): 58ppm 96 hrs[Fish(Trout)]. 500mg/ L 24hrs (Daphnia magna).	

Section 13 Disposal Considerations	
Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.	

Section 14 Transport Information	
UN number: Not available Shipping name: Not a DOT controlled material Hazard Class: Not available Packing group: Not available Exceptions: Not available	

Section 15 Regulatory Information	
TSCA 8(b) listed. EINECS (200-289-5). DSCL (EEC) R24/25– Avoid contact with skin and eyes. WHMIS (Canada): Not controlled.	

Section 16 Other Information	
The Material Safety Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Lab-Aids, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond Lab-Aids, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).	