



**SAFETY DATA SHEET**  
**Glycerin**  
**Ultrasonic Couplant**

**SECTION 1 – IDENTIFICATION**

**Product Name:** Glycerin  
**Recommended Use:** Industrial Ultrasonic Couplant, fluid  
65° to 500°F (18° to 260°C)  
**Restrictions on Use:** For Industrial Use Only

**Distributor:** Echo Ultrasonics® LLC  
774 Marine Drive, Bellingham, WA 98225; 360-671-9121  
**Emergency:** US: 1-800-255-3924 Outside US: +1-813-248-0585

**SECTION 2 – HAZARDS**

**Hazard Status:** **Not hazardous by OSHA 2012 Criteria.** Slightly hazardous in case of eye contact (irritant) or ingestion, or inhalation.  
**Hazards:** Slippery  
**Pictograms required:** None  
**Potential Health Hazards:** **Eye:** May cause slight irritation.  
**Skin:** Extended contact may cause slight irritation in sensitive individuals.  
The substance may be toxic to kidneys if ingested.

**Label Elements according to OSHA HazCom 2012: NONE APPLICABLE**

**SECTION 3 – COMPOSITION/INGREDIENTS**

Chemical/ Common Name	CAS #	WT %	Hazard Limit
Glycerin:	58-81-5	96 – 99.5%	Not Applicable
Water:		0.3±%	Not Applicable
		No known impurities	

**SECTION 4 – FIRST-AID MEASURES**

	Symptoms/Effects	Treatment Recommendations
<b>Eyes:</b>	Slight irritation	Flush with water holding eyelids apart. Get medical attention if irritation or other symptoms occur.
<b>Skin:</b>	None expected	Wash with soap and water. Get medical attention if irritation develops or persists. If exposed to excessive vapors or mists, remove to fresh air and get medical attention if cough or other symptoms develop.
<b>Inhalation:</b>	No irritation expected	DO NOT induce vomiting unless directed to do so by medical personnel. Loosen tight clothing; get medical attention if symptoms appear.
<b>Ingestion:</b>	Not Available	

**SECTION 5 – FIRE-FIGHTING MEASURES**

**Flammability:** May be combustible at high temperatures.  
**Suitable Extinguishing Equipment:** Dry Powder or carbon dioxide.  
**Specific Hazards from Combustion:** During a fire, smoke may contain the original material in addition to combustion products, which may be irritating. Combustion products may include and are not limited to carbon monoxide and carbon dioxide.  
**Recommendations:** Keep people away. Fight fire from a safe distance with adequate ventilation or wear positive pressure self-contained breathing apparatus and protective clothing. Using water can cause frothing with increase of fire intensity.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Spills may be slippery. Prevent entry into spill area by unauthorized persons.  
**Emergency Procedures:** Sprinkle inert, non-slip material onto spill if it cannot be cleaned up immediately by diluting with water and mop up.  
**Containment Procedures:** Minimize entry of material into sewers and drainage systems. Absorb spill with inert material (earth, clay, commercial absorbent for oil) then place into container for disposal. Do not use combustible material (such as sawdust) as an absorbent.

**SECTION 7 – HANDLING AND STORAGE**

**Precautions:** Although this material does not present a significant skin or eye concern, skin and eye contact should be avoided as a general industrial practice. Gloves are not required but may be desirable for repeated or long-term contact. Wearing eye protection is recommended. Wash hands and contaminated skin after handling.

**Recommendations:** Store in original containers above 64°F and below 130°F. Glycerin freezes at 55-64°F (13 - 18°C).

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Permissible Exposure Limits:** None established  
**Engineering Controls:** When used indoors on a hot surface, control fumes with local exhaust ventilation.  
**Personal Protection:** **Eyes:** Use safety glasses if there is a possibility for exposure.  
**Skin:** Wear impervious gloves as needed.  
**Special Requirements:** None

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Colorless  
**Odor:** Mild characteristic  
**pH:** 6-8  
**Molecular Weight:** 92.09 g/mole  
**Specific Gravity:** 1.2636 (Water = 1)  
**Vapor Density:** 3.17 (Air = 1)  
**Melting Point:** 66.2°F (19°C)  
**Boiling Point:** 555°F (290°C)  
**Flash Point:** 320°F (160°C) Closed Cup  
**Auto-Ignition Temperature:** 698°F (370°C)  
**Solubility:** Miscible in cold water, hot water and alcohol. Partially soluble in acetone.  
**Partition Coefficient:** -2.6  
**Viscosity:** 1410mPa.s @ 20°C



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**SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** Stable  
**Chemical Stability:** Stable  
**Potential Hazards:** No significant hazards expected.  
**Conditions to Avoid:** Avoid contact with incompatible materials, excess heat and ignition.  
**Incompatible Materials:** Highly reactive with oxidizing agents.  
**Hazardous Polymerization:** Will not occur.  
**Reactivity:** Hygroscopic

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** See section 2  
**Effects of Exposure:** See section 2  
**Immediate:** See section 2  
**Delayed, Chronic, Symptoms:** May cause damage to kidneys; slightly hazardous in case of skin contact (irritant) or ingestion or inhalation  
**Other Toxic effects on humans:** Low hazard of acute potential health effects for normal industrial handling or normal workplace conditions.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** 58.5 ppm 96 hours (trout)  
**Biodegradation Products:** None expected  
**Soil to Groundwater Motility:** No data  
**Other Adverse Effects:** No data

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**General Information:** Dispose in accordance with all federal, state, and local regulations.  
Use clean, impervious container.  
**Disposal Containers, Methods:** Landfill, incineration

**SECTION 14 – TRANSPORT INFORMATION**

**UN Number:** Not applicable  
**UN Proper Shipping Name:** Not applicable  
**Transport Hazard Class:** Not hazardous  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable  
**Bulk Transport Guidance:** Not applicable  
**Special Precautions:** Not restricted, not regulated, not hazardous & not dangerous to transport by air by IATA.

**SECTION 15 – REGULATORY INFORMATION**

**Federal/State Regulations:** Illinois toxic substance disclosure to employee act; Glycerin Rhode Island RTK hazardous substances: Glycerin Pennsylvania RTK; Minnesota: Glycerin Massachusetts RTK; Glycerin Tennessee – Hazardous Right to Know; Glycerin TSCA 8 (b) inventory; Glycerin  
**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.  
Health Hazard: 1  
Fire Hazard: 1  
**HMIS (USA):** Reactivity: 0  
Personal Protection: g  
Health: 1  
**National Fire Protection Assoc. (USA):** Flammability: 1  
Reactivity: 0  
Protective Equipment: Gloves. Lab coat. Vapor respirator when ventilation is inadequate. Safety glasses

**SECTION 16 – OTHER INFORMATION**

**SDS Preparation Date:** 4 March 2014  
**Last Revision:** January 4, 2022  
**Changes from Last Revision:** Annual Review  
**Other Information:**

*All information herein is provided in good faith and believed to be accurate and reliable. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ according to location. It is the buyer's/user's responsibility to ensure that this product is used in compliance with all federal, state, and local laws.*