



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
Eye: May cause slight irritation.
Potential Health Hazards: **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

Component	CAS #	WT %
Glycerin:	58-81-5	96 – 99.5%
Water:		0.3+%

SECTION 4 – FIRST-AID MEASURES

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

SECTION 5 – FIRE-FIGHTING MEASURES

Flammability: May be combustible at high temperatures.
Suitable Extinguishing Equipment: 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.
Specific Hazards from Combustion:
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
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)
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.



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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.
HMIS (USA): Health Hazard: 1
Fire Hazard: 1
Reactivity: 0
National Fire Protection Assoc. (USA): Personal Protection: g
Health: 1
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: 18 March 2020
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.