

## Section 1: Identification

<b>Common Name/Trade Name</b>	GLYCINE USP	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	Glycine	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Not classified
<b>Signal Word</b>	None
<b>Hazard Statement(s)</b>	N/A
<b>Pictogram(s)</b>	N/A
<b>Precautionary Statement(s)</b>	N/A
<b>Hazards Not Otherwise Classified</b>	No additional information available
<b>Ingredient(s) with Unknown Toxicity</b>	Not applicable

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	Glycine
<b>Common Name</b>	Glycine
<b>CAS Number</b>	56-40-6
<b>Impurities and/or Stabilizing Additives</b>	No data available

## Section 4: First Aid Measures

<b>General Advice</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
<b>If Inhaled</b>	Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Allow the victim to rest.
<b>In Case of Skin Contact</b>	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
<b>In Case of Eye Contact</b>	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Rinse eyes with water as a precaution.
<b>If Swallowed</b>	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
<b>Most Important Symptoms and Effects</b>	Not expected to present a significant hazard under anticipated conditions of normal use.

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Suitable extinguishing media : Sand. Dry chemical, alcohol-resistant foam, water spray, carbon dioxide. Unsuitable extinguishing media: Do not use a heavy water stream.
<b>Special Hazards Arising From the Substance/Mixture</b>	No additional information available
<b>Special PPE and/or Precautions for Firefighters</b>	Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Emergency procedures : Evacuate unnecessary personnel. Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". Emergency procedures : Ventilate area.
<b>Methods and Materials Used for Containment</b>	Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Collect spillage.
<b>Cleanup Procedures</b>	Methods for cleaning up : Recover mechanically the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Other information : Dispose of materials or solid residues at an authorized site.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
<b>Conditions for Safe Storage</b>	Storage conditions : Keep container closed when not in use. Store in a well-ventilated place. Keep cool. Incompatible products : Strong bases. Strong acids. Incompatible materials : Sources of ignition. Direct sunlight.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	Glycine (56-40-6) ACGIH ACGIH TWA (mg/m <sup>3</sup> ) 10 mg/m <sup>3</sup> OSHA OSHA PEL (TWA) (mg/m <sup>3</sup> ) 5 mg/m <sup>3</sup>
<b>Appropriate Engineering Controls</b>	Ensure good ventilation of the work station. Avoid all unnecessary exposure. Do not eat, drink or smoke during use.
<b>PPE - Eye/Face Protection</b>	Chemical goggles or safety glasses. Safety glasses.
<b>PPE - Skin Protection</b>	Wear protective gloves.
<b>PPE - Body Protection</b>	Wear suitable protective clothing.
<b>PPE - Respiratory Protection</b>	Wear appropriate mask.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Physical state: Solid. Appearance: Crystalline powder Color: White
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	characteristic
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	5.6
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	240 °C
<b>Solubility</b>	Water: 225 g/l
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	> 176.67 °C Closed cup
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Partition Coefficient</b>	Log Pow : -3.2
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	233 °C
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No additional information available
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	Not established.
<b>Conditions to Avoid</b>	Direct sunlight. Extremely high or low temperatures.
<b>Incompatible Materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Fume. Carbon monoxide. Carbon dioxide.

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 Oral - rat - 7,930 mg/kg ATE US (oral) 7930.000 mg/kg body weight
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	No data available
<b>Skin Corrosion/Irritation</b>	Not classified pH: 5.6
<b>Serious Eye Damage/Irritation</b>	Not classified pH: 5.6
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified Based on available data, the classification criteria are not met
<b>Carcinogenicity IARC</b>	Not classified
<b>Carcinogenicity ACGIH</b>	Not classified
<b>Carcinogenicity NTP</b>	Not classified
<b>Carcinogenicity OSHA</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified. Based on available data, the classification criteria are not met
<b>Specific Target Organ Toxicity - Single Exposure</b>	Not classified
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	Not classified
<b>Aspiration Hazard</b>	Not classified

## Section 12: Ecological Information

<b>Toxicity</b>	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
<b>Persistence and Degradability</b>	Not established.
<b>Bio-accumulative Potential</b>	Log Pow -3.2 Bioaccumulative potential Not established.
<b>Mobility in Soil</b>	No additional information available
<b>Other Adverse Effects</b>	Other information : Avoid release to the environment.

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Dispose in a safe manner in accordance with local/national regulations.
<b>Waste Treatment Methods Packaging</b>	Avoid release to the environment.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	Not dangerous goods.
<b>UN Proper Shipping Name</b>	N/A
<b>Transport Hazard Class(es)</b>	N/A
<b>Packaging Group</b>	N/A
<b>Environmental Hazards</b>	No data available

## Section 15: Regulatory Information

Glycine (56-40-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory CANADA No additional information available EU-Regulations No additional information available Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified Classification according to Directive 67/548/EEC or 1999/45/EC Not classified National regulations No additional information available 15.3. US State regulations Glycine(56-40-6) State or local regulations U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

## Section 16: Other Information

<b>Additional Information</b>	NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. NFPA fire hazard : 1 - Must be preheated before ignition can occur. NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. HMIS III Rating Health : 1 Slight Hazard - Irritation or minor reversible injury possible Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
<b>Prepared By</b>	Lisa Russell
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