



Section 1. Product and Company Identification

**Product Name** Glycine  
**CAS Number** 56-40-6

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**

(914) 654-6800 (914) 654-6899

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EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture:** Not classified as a hazardous substance or mixture according to OSHA Hazard Communication Standard 1910.1200.

**Special Indication of Hazards to Humans and the Environment:** Not hazardous according to Directive 67/548/EC.

Section 3. Composition / Information on Ingredients

**Common Name** Glycine  
**Formula**  $C_2H_5NO_2$   
**CAS Number** 56-40-6

Section 4. First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.  
**Skin Contact:** In case of contact, immediately wash skin with soap and copious amounts of water.  
**Eye Contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.  
**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5. Firefighting Measures

**Explosion Data - Dust Potential:** This material, like most materials in powder form, is capable of creating a dust explosion.

**Suitable Extinguishing Media:** Water spray; Carbon dioxide; dry chemical powder;  
Appropriate foam

**Specific Hazard(s):** Emits toxic fumes under fire conditions.

**Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.



Section 6. Accidental Release Measures

**Procedure(s) of Personal Precaution(s):** Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

**Methods for Cleaning Up:** Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

**Directions for Safe Handling:** Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Conditions of Storage:** Keep tightly closed.

Section 8. Exposure Controls / Personal Protection

**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

**General Hygiene Measures:** Wash thoroughly after handling.

**Personal Protective Equipment**

**Respiratory Protection:** Wear dust mask.

**Hand Protection:** Protective gloves.

**Eye Protection:** Chemical safety goggles.

Section 9. Physical and Chemical Properties

**Appearance Physical State:** Solid

**Color:** White

**Form:** Fine crystals

**pH:** 4 (at 20°C)

**BP/BP Range:** N/A

**MP/MP Range:** 240°C

**Flash Point:** N/A

**Flammability:** N/A

**Autoignition Temperature:** N/A

**Oxidizing Properties:** N/A

**Explosive Properties:** N/A

**Explosion Limits:** N/A

**Vapor Pressure:** N/A

**SG/Density:** N/A

**Partition Coefficient:** N/A

**Viscosity:** N/A

**Vapor Density:** N/A

**Saturated Vapor Conc.:** N/A

**Evaporation Rate:** N/A



**Bulk Density:** 1000 kg/L  
**Decomposition Temp.:** 250°C  
**Solvent Content:** N/A  
**Water Content:** N/A  
**Surface Tension:** N/A  
**Conductivity:** N/A  
**Miscellaneous Data:** N/A  
**Solubility Solvent:** 1 M in HCl 1 M, 20°C, complete, colorless

Section 10. Stability and Reactivity

**Stability:** Stable.

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide; Carbon dioxide;  
Nitrogen oxides; Ammonia

**Hazardous Polymerization:** Will not occur.

Section 11. Toxicological Information

**RTECS Number:** MB7600000

**Acute Toxicity**

LD50 Oral Rat 7930 mg/kg  
LD50 Subcutaneous Rat 5200 mg/kg  
LD50 Intravenous Rat 2600 mg/kg  
LD50 Oral Mouse 4920 mg/kg  
LD50 Intraperitoneal Mouse 4450 mg/kg  
LD50 Subcutaneous Mouse 5060 mg/kg  
LD50 Intravenous Mouse 2370 mg/kg

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Route of Exposure**

**Skin Contact:** May cause skin irritation.

**Skin Absorption:** May be harmful if absorbed through the skin.

**Eye Contact:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed.

**Chronic Exposure - Mutagen**

**Human:** 100 mg/L

**Cell Type:** Lymphocyte

Sister chromatid exchange



Section 12. Ecological Information

No data available.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**RID/ADR:** Non-hazardous for road transport.

**IMDG:** Non-hazardous for sea transport.

**IATA:** Non-hazardous for air transport.

Section 15. Regulatory Information

**Classification and Labeling according to EU Directives**

**S-Phrases:** 22 Do not breathe dust; 24/25 Avoid contact with skin and eyes

Not hazardous according to Directive 67/548/EC.

**Country Specific Information**

**Germany:** WGK: 2

**Switzerland:** SWISS POISON CLASS: FREI

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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