



## Material Safety Data Sheet

### GLYCINE

#### 1. Product Identification

**Synonyms:** Glycocol, Aminoacetic acid

**CAS No.:** 56-40-6 **Molecular Weight:** 75.07 **Chemical Formula:** CH<sub>2</sub>NH<sub>2</sub>COOH

#### 2. Composition/Information on Ingredients and company information:

Ingredient	CAS No.	Percent	Hazardous
Glycine	56-40-6	98.5 – 101%	No

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#### 3. Hazards Identification

##### Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

##### Potential health Effects

**Inhalation:** High concentrations of dust may cause coughing.

**Ingestion:** Large oral doses may cause nausea.

**Skin Contact:** No adverse effects expected.

**Eye Contact:** May cause redness.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

#### 4. First Aid Measures

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:** give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

**Skin Contact:** Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** Wash thoroughly with running water. Get medical advice if irritation develops.

#### 5. Fire Fighting Measures

**Fire:** Not considered to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures: Non-hazardous material. Flush with water to sewer.

#### 7. Handling and Storage: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.



## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** OSHA Permissible Exposure Limit (PEL):15mg/m<sup>3</sup> total dust, 5mg/m<sup>3</sup> respirable fraction for nuisance dusts. ACGIH Threshold Limit Value (TLV):0mg/m<sup>3</sup> total dust containing no asbestos and <1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

**Ventilation System:** In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin protection:** Wear protective gloves and clean body-covering clothing.

**Eye Protection:** Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:** White crystals.

**Odor:** Sweet.

**Solubility:**25g/100 ml water @ 25C(77 F).

**Density:**1.16    **pH:**5.5-7.0

**Boiling Point:** Not applicable.    **Melting Point:**182C (360F) Begins to decompose @ 238C (460 F)

**Vapor Density (Air=1)** No information found.

**Vapor Pressure (mm Hg)**No information found.

**Evaporation Rate (BuAc=1)**No information found.

## 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** No incompatibility data found.

**Conditions to Avoid:** No information found.

## 11. Toxicological Information

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Ingredient	Known	Anticipated	IARC Category
Glycine (56-40-6)	No	No	None

## 12. Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local



disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. **Transport Information** Not regulated.

**15. Regulatory Information**

**Australian Hazchem Code:** No information found.

**Poison Schedule:** No information found.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**16. Other Information**

**NFPA Ratings:** Health: 0 **Flammability:** 1 **Reactivity:** 0

**Label Precautions:** None.

**Label First Aid:** Not applicable.

**Product Use:** Laboratory Reagent.

**17. Date:**

**2023.1.1**

**Disclaimer:**

**Produced by: SHIJIAZHUANG DONGHUA JINLONG CHEMICAL CO., LTD.**

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