

SAFETY DATA SHEET

L-GLYCINE

ITEM # L-GLYC-4970

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Synonyms: Glycocol, Aminoacetic Acid
CAS#: 56-40-6
Molecular Weight: 75.07
Chemical Formula: CH₂NH₂COOH
In Case of Emergency: Chemtrec 1 (800) 424-9300 (24 hours)
 NSW Poisons Information Centre: 131 126 (24 hours)

Distributor Name: Bella Corp Trading Pty Ltd
Address: 6/34 Dominions Road Ashmore, Queensland, Australia 4214
Telephone: 07 5597 4169
Email: bellacorp@bellacorp.com.au

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent (%)</u>	<u>Hazardous?</u>
Glycine	56-40-6	90 – 100%	Yes

SECTION III – 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.

SAF-T-DATA™ Ratings (provided here for your convenience):

Health Rating: 1 – Slight
Flammability Rating: 1 – Slight
Reactivity Rating: 0 – None
Contact Rating: 1 – Slight
Storage Color Code: Green (General Storage)

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.

SECTION IV – 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.

SECTION V – FIRE FIGHTING MEASURES

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

SECTION VI – ACCIDENTAL RELEASE MEASURES

Non-hazardous material. Flush with water to sewer.

SECTION VII – HANDLING AND STORAGE

Keep in a tightly closed container, store in a cool, dry, ventilated area. Protect against physical damage.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits:	None established.
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):	For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particular respirator (NIOSH type N95 or better filters) may be worn. 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 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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystals
Odor:	Odorless
Solubility:	25g/100 ml water @ 25°C (77°F)
Density:	1.16
pH:	4.0 (0.2 M solution)
% Volatiles by Volume @ 210C (700F):	0
Boiling Point:	Not applicable
Melting Point:	182°C (360°F). Begins to decompose @ 238°C (460°F).
Vapor Density (Air=1):	No information found.
Vapor Pressure (mm Hg):	No information found.
Evaporation Rate (BuAC=1):	No information found.

SECTION X – 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.

SECTION XI – TOXICOLOGICAL INFORMATION

Oral rat LD50 7930 mg/kg. Investigated as a mutagen.

Cancer Lists			
Ingredient Category	NTP Carcinogen		IARC
	Known	Anticipated	
Glycine (56-40-6)	No	No	None

SECTION XII – ECOLOGICAL INFORMATION

Environmental Fate:	No information found.
Environmental Toxicity:	No information found.

SECTION XIII – DISPOSAL CONSIDERATION

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.

SECTION XIV – TRANSPORT INFORMATION

Not regulated.

SECTION XV – REGULATORY INFORMATION

Chemical Inventory Status – Part 1				
Ingredient	TSCA	EC	Japan	Australia
Glycine (56-40-6)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2				
Ingredient	Korea	Canada		Phil.
		DSL	NDSL	
Glycine (56-40-6)	Yes	Yes	No	Yes

Federal, State, & International Regulations – Part 1				
Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List	Chemical Catg.
Glycine (56-40-6)	No	No	No	No

Federal, State, & International Regulations – Part 2			
Ingredient	CERCLA	RCRA	TSCA
		261.33	8 (d)
Glycine (56-40-6)	No	No	No

Chemical Weapons Convention: No.
TSCA 12 (b): No.
CDTA: No.
SARA 311/312:
Acute: No.
Chronic: No.
Fire: No.
Pressure: No.
Reactivity: No.
(Pure/Solid).

Australian Hazchem Code: None allocated.
Poison Schedule: None allocated.
WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Production Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION XVI – OTHER INFORMATION

NFPA Ratings: Health: 0

Flammability: 1

Reactivity: 0

Label Hazard Warning: 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.

Label Precautions: None.

Label First Aid: Not applicable.

Product Use: Laboratory reagent.

Revision Information: No changes.

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.