

Glycine (Food Grade) — Catalogue No. BA-1001

Date of issue: 30/09/2024 | Revision: 1.0 | Supersedes: New issue

1. Identification

Product identifier	Glycine (Food Grade)
Catalogue number	BA-1001
Other names	Aminoacetic acid; glycocoll
Recommended use	Food and supplement ingredient; laboratory reagent.
Restrictions on use	Use in food only as permitted by applicable food regulations.
Supplier	AuSaMicS Pty Ltd 36/25 Trafalgar Road, Epping VIC 3076, Australia ABN 56 676 640 467
Contact	Phone: +61 412 520 598 Email: support@ausamics.com Web: www.ausamics.com.au
Emergency telephone	Poisons Information Centre (Australia, 24 h): 13 11 26 Supplier (business hours): +61 412 520 598

2. Hazard Identification

Not classified as hazardous according to the criteria of the WHS Regulations (GHS Revision 7). Not classified as Dangerous Goods for transport.

GHS classification	Not classified
Signal word	None
Hazard pictograms	None
Other hazards	Fine dust may form combustible dust clouds in air.

3. Composition / Information on Ingredients

Substance.

Ingredient	CAS No.	EC No.	Content (%)
Glycine	56-40-6	200-272-2	≥ 98.5

4. First Aid Measures

Inhalation	Move to fresh air.
Skin contact	Wash with water.
Eye contact	Rinse with water for several minutes. Seek advice if irritation persists.
Ingestion	Rinse mouth. No adverse effects expected from small amounts.
Advice to doctor	Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media	Water spray, foam, dry chemical powder or carbon dioxide.
Specific hazards	Combustible dust. Combustion produces carbon oxides and nitrogen oxides.
Advice for fire fighters	Wear self-contained breathing apparatus.
Hazchem code	None allocated

6. Accidental Release Measures

Personal precautions	Avoid generating dust.
Environmental precautions	Avoid release of large quantities into drains.
Clean-up	Sweep or vacuum and place in a container for disposal.

7. Handling and Storage

Safe handling	Follow good manufacturing and hygiene practice. Avoid dust.
Storage conditions	Store at 15–25 °C, dry, in a tightly closed container.
Incompatible materials	Strong oxidising agents.

8. Exposure Controls / Personal Protection

Workplace exposure standards	None assigned. Keep inhalable dust low.
Eye protection	Safety glasses (AS/NZS 1337.1).
Hand protection	Food-safe gloves.
Respiratory protection	P2 respirator if dust cannot be controlled.

9. Physical and Chemical Properties

Appearance	White crystalline powder
Odour	Odourless
Taste	Mildly sweet
pH	5.9–6.4 (1 in 20 solution)
Relative density	1.16
Melting point	232–236 °C (decomposes)
Solubility in water	About 250 g/L at 25 °C
Molecular weight	75.07 g/mol

10. Stability and Reactivity

Chemical stability	Stable under recommended conditions.
Incompatible materials	Strong oxidising agents.

Hazardous decomposition products	Carbon oxides, nitrogen oxides, ammonia.
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11. Toxicological Information

Acute toxicity	Not classified. Oral LD50 (rat): 7,930 mg/kg.
Irritation / sensitisation	Not classified.
Carcinogenicity / mutagenicity / reproductive toxicity	Not classified.

12. Ecological Information

Readily biodegradable; low bioaccumulation (log Kow -3.21). Fish LC50 (96 h) > 1,000 mg/L; algae EC50 (72 h) > 1,000 mg/L; crustacea EC50 (48 h) > 220 mg/L. Not classified as hazardous to the aquatic environment.

13. Disposal Considerations

Dispose of in accordance with local regulations.

14. Transport Information

ADG / IMDG / IATA	Not regulated as Dangerous Goods
UN number	None allocated
Marine pollutant	No

15. Regulatory Information

Australian WHS classification	Not a hazardous chemical
Poisons Standard (SUSMP)	Not scheduled
Food Standards Code	Permitted amino acid in formulated supplementary sports foods (Standard 2.9.4, Schedule 29), subject to maximum amounts.

16. Other Information

Date of preparation	30/09/2024
Revision	1.0 — first issue
Basis of classification	No harmonised GHS classification exists for glycine. ECHA registration data show no irritation, sensitisation or repeated-dose toxicity meeting classification criteria, and major manufacturers do not classify glycine as hazardous. The upstream supplier SDS (Chemwatch 21943) applies a precautionary STOT RE 2 classification, which AuSaMicS has reviewed and not adopted on the basis of this data.

This Safety Data Sheet summarises health and safety information for the product as supplied. The information in this document is based on current technical knowledge and is provided in good faith for laboratory and technical evaluation purposes. It does not constitute a warranty of fitness for a particular purpose. Users are responsible for validating the product within their own methods and for complying with applicable regulations. AuSaMicS Pty Ltd accepts no liability for loss or damage arising from use of this information. © AuSaMicS Pty Ltd. All rights reserved.