

## Safety Data Sheet

Date of revision : April 7, 2025

## 1. Product and company identification

Product name	Glycylglycine
Recommended use	For test research
Name of manufacturer	Yoneyama Yakuhin Kogyo Co., Ltd.
Address	2-3-11 Doshomachi , Chuo-ku, Osaka, 541-0045, Japan
Contact for Information	Sales Division
Telephone number	06-6231-3555
Fax number	06-6223-1093
SDS No.	29891

## 2. Hazards identification

GHS Classification	Does not meet the classification criteria.
Label Elements	
Symbol	—
Signal word	—
Hazard statements	—

## 3. Composition/information on ingredients

Substance/Mixture	Substance
Chemical name or commercial name	Glycylglycine
Synonyms	Diglycine
Chemical formula	C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>
Numerical identifier	CAS RN : 556-50-3
Ingredients and composition	100%
Others	HS Code:2924.19

## 4. First and measures

Inhalation	Move the exposed person to fresh air at once. Keep the affected person warm and at rest.
Skin contact	Call a POISON CENTER/doctor if you feel unwell. Rinse immediately contaminated clothing and skin with plenty of water before removing clothing.
Eye contact	If skin irritation occurs: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Ingestion	Rinse mouth.

## 5. Fire fighting measures

Suitable extinguishing media	Spray water, alcohol-resistant foam, powder, carbon dioxide
Unsuitable extinguishing media	No data.
Specific hazards arising from chemical	No data.
Particular fire fighting	No data.
Special protective actions for fire-fighters	Firefighting should be done upwind and avoid inhalation of toxic fumes. Depending on the risk, wear respiratory protection.

## 6. Accidental release measure

Personal precautions, protective equipment and emergency procedures	Wear appropriate protective equipment when working, operate from upwind, and evacuate people downwind. Wear protective gloves, protective eyewear, and protective clothing.
Environmental precautions	Avoid release into rivers or other bodies of water to prevent environmental impact.
Methods and materials for containment and cleaning up	Collect as much of the spilled material as possible using a method that prevents dust generation, place it in an empty container, and then wash the area with plenty of water.

## 7. Handling and storage

Handling	
Technical measures	Install local exhaust ventilation in the handling area. Seal the container tightly after use.
Precautions for safe handling	Do not tip, drop, impact, or drag containers; handle with care. Prevent leaks, spills, and dispersal. Avoid unnecessary dust generation. Strong oxidizers.
Incompatible materials	
Hygiene measures	Wash hands thoroughly after handling.
Storage	
Conditions for safe storage	Store in a dry, cool place away from direct sunlight. Keep container tightly sealed.
Safe packaging materials	Polyethylene, Polypropylene.

## 8. Exposure controls/personal protection

Exposure limits

ACGIH

—

Equipment measures

Handle in a closed system as much as possible or use local exhaust ventilation. Provide hand-washing facilities near the work area.

Protective equipment

Respiratory protection

Wear a dust mask or a simple dust mask.

Hand protection

Wear rubber gloves.

Eye protection

Wear goggles.

Skin protection

Wear work clothing.

## 9. Physical and chemical properties

Physical state

Crystals or crystalline powder

Color

White

Odor

Odorless

Melting point/Freezing point

262-264°C (Decomposition occurs)

Boiling point

No data.

Combustibility

Combustible

Upper/lower explosive limits

No data.

Flash point

No data.

Auto-ignition temperature

No data.

Decomposition temperature

262-264°C

pH

5.0-7.0 (10% aqueous solution)

Viscosity

No data.

Solubility

20% (1.77mol/L) in water at 25° C

n-Octanol/water partition coefficient

log P = -2.92

Vapor pressure

0.00000005 (mmHg)

Specific gravity

No data.

Vapor density

No data.

Particle characteristics

No data.

## 10. Stability and reactivity

Stability

Stable under normal handling conditions.

Possibility of hazardous reaction

No data.

Conditions to avoid

Avoid exposure to sunlight, heat, high temperatures, and high humidity.

Incompatible materials

Strong oxidizers.

Hazardous decomposition products

Nitrogen oxides.

## 11. Toxicological information

Acute toxicity

No data.

Skin corrosion/irritation

No data.

Eye damage/irritation

No data.

Respiratory sensitization

No data.

Skin sensitization

No data.

Germ cell mutagenicity

No data.

Carcinogenicity

No data.

Reproductive toxicity

No data.

Specific target organ toxicity (Single exposure)

No data.

Specific target organ toxicity (Repeated exposure)

No data.

Aspiration hazard

No data.

## 12. Ecological information

Hazardous to the aquatic environment

Short-term: No data.

Long-term: No data.

Persistence and degradability

No data.

Bioaccumulative potential

No data.

Mobility in soil

No data.

Hazardous to the ozone layer

This substance is not listed in the annexes of the Montreal Protocol.

## 13. Disposal considerations

Residual disposal

Dispose of through a certified industrial waste disposal contractor.

## 14. Transport information

UN Number

—

UN proper shipping name

—

Transport hazard class

—

Packing group

—

Additional identification

Ensure containers are free from leaks before transport. Load carefully to prevent tipping, dropping, or damage, and secure the cargo to avoid shifting during transit.

15. Regulatory information

Please apply to the regulatory control in each country.

16. Other information

References

Ministry of Health, Labor and Welfare website  
Global Harmonized System of Classification and Labelling of  
Chemicals(GHS) Sixth revised edition  
National Institute of Technology and Evaluation(NITE)  
Hazardous Substances Data Bank(HSDS)

Attentions

The Safety Data Sheet (SDS) is prepared based on JIS Z7253.  
All information contained herein is given in good faith and  
no warranty expressed or implied is made to its accuracy.

The recommended industrial hygiene and safe handling  
procedures are believed to be generally applicable.  
However, each user should review these recommendations and  
determine whether they are appropriate.