# Peptide Institute, Inc.

7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan

# Safety Data Sheet (SDS)

# 1. PRODUCT AND COMPANY IDENTIFICATION

Catalog Code Number: 3050

**Product Name:** Glu(Cys-Gly) [Glutathione; GSH]

Supplier's Name: Peptide Institute, Inc.

Address: 7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan

Phone Number: 81-72-643-4411 Fax Number: 81-72-643-4422 Creation Date: May 26, 2015 Revised: October 3, 2023 (ver.3)

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

**GHS classification**HEALTH HAZARDS

ACUTE TOXICITY: ORAL

Not classified

Other hazards: No data available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture: Single Substance

Common Chemical Name, Common Name or Substance Name: γ-L-Glutamyl-L-cysteinylglycine

**Molecular Formula:**  $C_{10}H_{17}N_3O_6S$  (M.W. 307.32)

**CAS Registry Number:** 70-18-8

**EINECS No.: 200-725-4** 

UN No. & Hazard Class: This material is not classified as hazardous goods.

# 4. FIRST AID MEASURES

Inhalation: If inhaled, remove person to fresh air and keep comfortable for breathing. Wash your mouth and nasal cavity

thoroughly with clean water and get medical attention.

**Skin contact:** In case of skin contact, wash with plenty of water. Call a doctor, if you feel unwell.

Eye contact: In case of contact with eyes, wash with plenty of water. Call a doctor, if you feel unwell.

**Ingestion:** If swallowed, rinse mouth. Call a doctor, if you feel unwell.

# **5. FIRE FIGHTING MEASURES**

Suitable Extinguishing media: Water spray, carbon dioxide, dry chemical powder, or appropriate form.

Unsuitable Extinguishing media: Nothing special.

Special extinguishing method: Complies with fire extinguishing method in normal fire.

Specific hazards arising from the chemical product:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures:

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

#### **Environmental precautions:**

To be careful not discharged to the environment without being properly handled waste water contaminated.

#### Methods and materials for contaminant and methods and materials for cleaning up:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

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# 7. HANDLING AND STORAGE

Handling:

Technical measures: No data available

Precautions for safe handling: Avoid inhalation. Avoid contact with eyes, skin and clothing.

Storage:

Condition for safe storage: Keep container tightly closed. Store in a cool dry place.

Recommended storage temperature: 2-10 °C.

Container and packaging materials for safe handling: No data available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: No data available Exposure limits: No data available Personal protective equipment:

Wear appropriate respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid (powder)

Color: White

Odor: No data available

Melting point/freezing point: No data available

Boiling point or initial boiling point and boiling range: No data available

Flammability: No data available

Lower and upper explosion limit/flammability limit: No data available

Flash point: No data available

**Auto-ignition temperature:** No data available **Decomposition temperature:** No data available

pH: No data available

Kinematic viscosity: No data available

**Solubility:** Soluble in H<sub>2</sub>O

*n*-Octanol/water partition coefficient: No data available

Vapor pressure: No data available

Density and/or relative density: No data available

**Relative vapor density:** No data available **Particle characteristics:** No data available

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available Incompatible materials: No data available

Hazardous decomposition products: No data available

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD<sub>50</sub> (p.o. male rat): > 10,000 mg/kg

 $LD_{50}$  (p.o. mouse): > 5 g/kg (RTECS)

Skin irritation/corrosion: No data available Serious eye damage/irritation: No data available Respiratory or skin sensitization: No data available

Reproductive cell mutagenicity: There is information regarding mutagenicity, refer to RTECS No. MC0556000.

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Carcinogenicity: No data available Reproductive toxicity: No data available STOT-single exposure: No data available STOT-repeated exposure: No data available Aspiration hazard: No data available

# 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available

Mobility in soil: No data available

Hazards to ozone layer: No data available

#### 13. DISPOSAL CONSIDERATIONS

Information on the safe and environmentally sound disposal or recycling of chemicals and contaminated containers and packaging:

Obey local/national regulations.

#### 14. TRANSPORT INFORMATION

 $\boldsymbol{UN}$  number and  $\boldsymbol{UN}$  classification: This material is not classified as hazardous goods.

Regulatory information if there are Japanese regulations: Not applicable.

#### 15. REGULATORY INFORMATION

Names of applicable Japanese laws and information on regulation based on those laws: Not applicable.

Caution: The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

# 16. OTHER INFORMATION

**Disclaimer:** NOT FOR USE IN HUMANS. For R&D use only. Not for drug, household or other uses.

#### Reference:

- 1. JCIA: Japan Chemical Industry Association GHS support Guidelines (June, 2019)
- 2. JIS Z 7253:2019 Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS)
- 3. NITE: National Institute of Technology and Evaluation (JAPAN) web site
- 4. The Chemical Daily Co., Ltd.: Chemical products of 16112 (2012)

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