

Material Safety Data Sheet (MSDS)

Product Name: L Glutathione

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- Product Name: L-Glutathione
- Synonyms: GSH, γ -Glutamylcysteinylglycine
- Molecular Formula: C₁₀H₁₇N₃O₆S
- Molecular Weight: 307.33 g/mol
- Recommended Uses: Antioxidant, Nutraceutical, Pharmaceutical intermediate, Cosmetic ingredient

2. Hazards Identification

- Classification (GHS): Not classified as hazardous
- Hazard Statements: Not expected to be hazardous under normal use
- Precautionary Statements:
 - Avoid inhalation of dust

- Avoid contact with eyes
- Use standard laboratory safety practices

3. Composition / Information on Ingredients

- Chemical Name: L-Glutathione
- CAS Number: 70-18-8
- EC Number: 200-725-4
- Purity: $\geq 98\%$

4. First Aid Measures

- Inhalation: Move to fresh air. Seek medical attention if symptoms occur
- Skin Contact: Wash thoroughly with soap and water
- Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice if irritation persists
- Ingestion: Rinse mouth with water. Seek medical advice if large quantities are ingested

5. Firefighting Measures

- Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, foam
- Hazards from Combustion Products: Emits carbon oxides, nitrogen oxides, and sulfur oxides
- Protective Equipment: Firefighters should wear self-contained breathing apparatus (SCBA)

6. Accidental Release Measures

- Avoid creating dust
- Sweep up and place in suitable containers for disposal
- Ensure adequate ventilation

7. Handling and Storage

- Handling: Handle with care. Avoid dust formation. Use in a well-ventilated area
- Storage: Store in a cool, dry place. Keep container tightly closed. Protect from moisture and light

8. Exposure Controls / Personal Protection

- Exposure Limits: Not established
- Engineering Controls: Local exhaust recommended in case of dust formation
- Personal Protection:
 - Respiratory: Dust mask if dusting occurs
 - Hands: Protective gloves
 - Eyes: Safety goggles
 - Clothing: Protective laboratory coat

9. Physical and Chemical Properties

- Appearance: White to off-white crystalline powder
- Odor: Odorless
- Solubility: Soluble in water
- Melting Point: Decomposes > 190°C
- pH (1% solution): 2.0 – 3.0
- Stability: Stable under recommended conditions

10. Stability and Reactivity

- Stability: Stable under normal temperature and pressure
- Conditions to Avoid: Heat, moisture, light
- Incompatible Materials: Strong oxidizers, strong acids, bases
- Hazardous Decomposition Products: CO_x, NO_x, SO_x

11. Toxicological Information

- Acute Toxicity: Not classified as toxic
- LD50 (Oral, rat): > 5000 mg/kg
- Irritation: Not expected to be irritating
- Sensitization: Not known to cause allergic reactions

12. Ecological Information

- Ecotoxicity: Not expected to be harmful to aquatic life
- Persistence/Degradability: Biodegradable
- Bioaccumulation: No potential expected

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
- Do not dispose into the environment or sewage system

14. Transport Information (Detailed)

- UN Number: Not regulated (Non-hazardous)
- UN Proper Shipping Name: Not applicable (L-Glutathione is not classified as a dangerous good)
- Transport Hazard Class(es): Not applicable
- Packing Group: Not applicable
- Environmental Hazards: None identified
- Special Precautions for User:
 - Ensure packaging is secure to avoid spillage
 - Avoid transport with incompatible substances (oxidizers, acids)
- Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code): Not applicable
- Regulatory Status:
 - ADR/RID (Europe): Not regulated

- IMDG (Sea): Not regulated
 - IATA/ICAO (Air): Not regulated
 - DOT (USA): Not regulated
- General Guidance: Product is considered safe for transport under normal conditions. Keep container tightly sealed, store in dry and cool environment, and protect from direct sunlight

15. Regulatory Information

- Regulation: Not classified under any hazardous chemical regulations
- Inventory Status: Listed in major chemical inventories (EINECS, TSCA)

16. Other Information

- This MSDS is prepared in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200), EU Regulation (EC) No. 1907/2006 (REACH), and GHS guidelines
- Information is believed to be correct but does not claim to be exhaustive. Users should make independent determination of suitability.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.