

# Material Safety Data Sheet (MSDS)

**Product Name:** DL Methionine

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

Rawpharma Biz Pvt Ltd

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## 1. Identification of the Substance/Preparation and Company

- Product Name: DL-Methionine
- Chemical Formula:  $C_5H_{11}NO_2S$
- Synonyms: 2-Amino-4-(methylthio)butanoic acid

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## 2. Hazards Identification

- Classification: Non-hazardous under normal handling.
- Potential Health Effects: May cause mild irritation to eyes, skin, or respiratory tract if exposed to large amounts.
- Environmental Hazards: Not classified as dangerous.

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## 3. Composition/Information on Ingredients

- Product: DL-Methionine
- CAS No: 59-51-8

- EC No: 200-432-1
  - Purity:  $\geq 98\%$
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#### **4. First Aid Measures**

- Inhalation: Move person to fresh air. Seek medical attention if irritation persists.
  - Skin Contact: Wash with soap and water.
  - Eye Contact: Rinse immediately with plenty of water for at least 15 minutes.
  - Ingestion: Rinse mouth with water and seek medical attention if large quantities are swallowed.
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#### **5. Firefighting Measures**

- Suitable Extinguishing Media: Water spray, foam, dry chemical, CO<sub>2</sub>.
  - Special Hazards: Combustion may release sulfur oxides and nitrogen oxides.
  - Protective Equipment: Wear self-contained breathing apparatus and protective clothing.
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#### **6. Accidental Release Measures**

- Personal Protection: Use dust mask, gloves, and safety glasses.
  - Spills: Sweep up and place in a suitable container for disposal. Avoid dust formation.
  - Environmental Precautions: Prevent large amounts from entering water systems.
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#### **7. Handling and Storage**

- Handling: Avoid dust generation. Ensure good ventilation.
  - Storage: Store in cool, dry, well-ventilated place. Keep container tightly closed.
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#### **8. Exposure Controls/Personal Protection**

- Engineering Controls: Provide exhaust ventilation to prevent dust accumulation.
- Personal Protection:
  - Eye Protection: Safety glasses.

- Skin Protection: Gloves and protective clothing.
- Respiratory Protection: Dust mask under dusty conditions.

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## 9. Physical and Chemical Properties

- Appearance: White crystalline powder
- Odor: Slight sulfur-like odor
- Molecular Weight: 149.21 g/mol
- Melting Point: ~ 280 °C (decomposes)
- Solubility: Slightly soluble in water
- pH (1% solution): ~5.6

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## 10. Stability and Reactivity

- Stability: Stable under normal storage conditions.
- Hazardous Decomposition Products: Sulfur oxides, nitrogen oxides.
- Incompatibility: Strong oxidizing agents.

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## 11. Toxicological Information

- Acute Toxicity: LD50 (oral, rat): > 5000 mg/kg (low toxicity)
- Irritation: Mild irritation possible to skin and eyes.
- Sensitization: Not expected.
- Chronic Effects: No known significant effects.

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## 12. Ecological Information

- Biodegradability: Readily biodegradable.
- Bioaccumulation: Not expected.
- Ecotoxicity: Low environmental hazard.

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## 13. Disposal Considerations

- Product: Dispose of in accordance with local, regional, and national regulations.
- Packaging: Recycle or dispose according to official requirements.

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## 14. Transport Information (Detailed)

- UN Number: Not classified as hazardous for transport.
- UN Proper Shipping Name: Not regulated
- Transport Hazard Class: Not applicable
- Packing Group: Not applicable
- Environmental Hazards: Not considered a marine pollutant
- Special Precautions:
  - Avoid generating dust during loading/unloading.
  - Ensure containers are properly sealed to prevent moisture absorption.
  - Store and transport away from strong oxidizing agents.
- Land Transport (ADR/RID): Not classified as dangerous goods.
- Sea Transport (IMDG): Not classified as dangerous goods.
- Air Transport (ICAO/IATA): Not classified as dangerous goods.
- Additional Notes: DL-Methionine is stable under normal transport conditions and is safe for shipment via road, sea, and air.

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## 15. Regulatory Information

- Classification: Non-hazardous according to GHS/CLP.
- Inventory Status: Listed on major chemical inventories (EINECS, TSCA).

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## 16. Other Information

- The information provided in this MSDS is believed to be correct to the best of our knowledge at the date of publication.

- It is intended as a guide for safe handling, use, processing, storage, transportation, and disposal.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)
- MSDS are based on the manufacturer's provided information.