



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

- **Feed Grade L-Methionine**(Compliant with GB/T 16483, GHS Rev.9, IMDG, IATA)**Revision Date:**
28 FEB 2026

SECTION 1: Identification

1.1 Product Identifiers

- Name: L-Methionine (Feed Grade)
- CAS: 63-68-3
- Synonyms: L-2-Amino-4-(methylthio)butanoic acid
- EINECS: 200-562-9

1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Tel: +86-021-50350029 | Fax: +86-021-50350029

1.3 Emergency Contact: +86-021-50350029 (24h)

1.4 Uses: **Exclusive for animal feed additive (essential amino acid supplement)**. Not for human food or pharmaceutical use.

SECTION 2: Hazards Identification

- **GHS Classification:** Respiratory tract irritation (Category 3, dust)
- **Pictogram:** (Exclamation Mark)
- **Signal Word:** Warning
- **Hazard Statements:** H335 - May cause respiratory irritation
- **Precautionary Statements:** P261 (Avoid dust), P304+P340 (Inhalation: Fresh air), P312 (Call doctor if unwell)

Summary: Non-hazardous solid feed additive. Mild respiratory irritation only from high-concentration dust. Non-flammable, non-toxic to animals and environment at recommended dosage.

SECTION 3: Composition/Information on Ingredients

- **Pure Substance:** L-Methionine (CAS 63-68-3)
- **Concentration:** ≥99.0% (Feed Grade)
- **Impurities:** None hazardous (meets feed hygiene standards)

SECTION 4: First Aid Measures

- **Inhalation:** Move to fresh air. Rest comfortably. If cough persists, call a doctor.
- **Skin Contact:** Rinse with water. No irritation expected; no special treatment needed.
- **Eye Contact:** Rinse eyes with plenty of water for 5 minutes if dust enters. Do not rub.
- **Ingestion (Human):** Rinse mouth, drink water. Do not induce vomiting. Consult a doctor if discomfort occurs.
- **Antidote:** None specific. Treat symptomatically.

SECTION 5: Firefighting Measures



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- **Extinguishing Media:** Water spray, CO₂, dry chemical powder, foam.
- **Hazards in Fire:** Decomposes at >284°C to non-toxic gases (CO₂, N₂, SO₂). No explosion risk.
- **Firefighter Advice:** Wear standard PPE. Cool containers with water spray. Avoid inhaling combustion dust.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear N95 dust mask, nitrile gloves, safety goggles for large spills.
- **Cleanup:**
 - Small: Sweep into sealed HDPE container for reuse.
 - Large: Vacuum with dust-free equipment; collect in sealed drums.
- **Environmental:** Non-toxic to soil/water. No special disposal needed for spilled material.

SECTION 7: Handling and Storage

- **Handling:** Use in well-ventilated areas. Avoid dust generation. Wash hands after handling.
- **Storage:**
 - Temperature: ≤25°C | Humidity: ≤60%
 - Keep tightly sealed in original packaging (moisture-proof paper drums with inner PE liner).
 - Shelf Life: **36 months (unopened, feed grade)**
 - Incompatibilities: Strong oxidizers (at >250°C)
 - Segregation: Store away from oxidizers; keep separate from non-feed grade chemicals.

SECTION 8: Exposure Controls/Personal Protection

- **OEL:** TWA 10 mg/m³ (ACGIH)
- **Engineering Controls:** Local exhaust ventilation for bulk handling.
- **PPE:**
 - Respiratory: N95 dust mask (bulk only)
 - Eyes: Safety goggles (bulk only)
 - Skin: Nitrile gloves (routine handling optional)

SECTION 9: Physical and Chemical Properties

- **State:** White crystalline powder | **Odor:** Slight characteristic odor
- **Melting Point:** 280-284°C (decomposes) | **Boiling Point:** N/A
- **Solubility:** Water (3.4 g/100 mL, 25°C); soluble in dilute acid/alkali
- **Bulk Density:** 1.31-1.34 g/cm³ | **Specific Rotation:** +21.0° ~ +25.0°
- **Flash Point:** Not applicable (non-combustible) | **Vapor Pressure:** <0.0001 kPa

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal feed production and storage conditions.
- **Hazardous Reactions:** None under normal use. Reacts with strong oxidizers only at >250°C.
- **Decomposition Products:** CO₂, N₂, SO₂ (non-toxic at fire scene dilution).

SECTION 11: Toxicological Information

- **Acute Toxicity:** Oral (Rat) LD₅₀ >10,000 mg/kg (Non-toxic)
- **Skin Irritation:** None | **Eye Irritation:** None (dust causes physical discomfort only)



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- **Carcinogenicity:** IARC Group 3 (not classifiable)
- **Animal Safety:** Essential amino acid for livestock/poultry. Safe at recommended feed inclusion levels.

SECTION 12: Ecological Information

- **Toxicity to Aquatic Life:** LC₅₀ (Zebrafish) >10,000 mg/L
- **Biodegradability:** Fully biodegradable (BOD₅ /COD = 0.86)
- **Environmental Impact:** No bioaccumulation. Safe for manure disposal and soil application.

SECTION 13: Disposal Considerations

- **Product Waste:** Expired material is non-hazardous. Can be mixed into low-value feed or disposed of as general solid waste.
- **Packaging:** Rinse and recycle (HDPE/paper) or dispose as non-hazardous waste.
- **Compliance:** Follow local feed waste and solid waste regulations.

SECTION 14: Transport Information

- **UN Number:** None (Non-hazardous goods)
- **Transport Name:** L-Methionine (Feed Additive), Not Dangerous Goods
- **Hazard Class:** None | **Packaging Group:** None
- **Transport Precautions:** Keep dry, avoid sunlight/rain. Transport in ordinary covered cargo vehicles. Do not mix with strong oxidizers.

SECTION 15: Regulatory Information

- **China:** Compliant with GB 13078.1-2017, NY/T 391-2021, Feed Additive Variety Catalogue.
- **EU:** Compliant with EC 1831/2003 (Feed Additives), REACH (listed, non-SVHC).
- **US:** TSCA listed, compliant with FDA/CVM feed additive regulations.

SECTION 16: Other Information

- **Disclaimer:** This MSDS is for feed grade L-Methionine only. Misuse for non-feed purposes is at the user's risk.
- **Revision Date:** 28 FEB 2026