



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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Material Safety Data Sheet (MSDS)

Date of Issue: February 24, 2026 **Version:** 1.1 **Product:** L-Threonine (Feed Grade) **CAS No.:** 72-19-5
Prepared by: EHS Department, BioNutra Ingredients Co., Ltd. **Emergency Phone:** +86-21-5888-9999 (24h)

1. Identification

- **Product Name:** L-Threonine (Feed Grade)
- **CAS No.:** 72-19-5
- **EC No.:** 200-774-1
- **Molecular Formula:** C₄H₉ NO₃
- **Recommended Use:** Essential amino acid supplement for animal feed.
- **Restrictions on Use:** Not for human consumption or household use.

2. Hazards Identification

- **GHS Classification:** Not classified as hazardous under GHS (Regulation (EC) 1272/2008).
- **Label Elements:** No pictograms, no signal word, no hazard statements.
- **Precautionary Statements:** P261, P271, P304+P340, P312.
- **Potential Health Effects:** Generally regarded as safe for occupational handling. Dust may cause mild respiratory, eye, or skin irritation in sensitive individuals.

3. Composition/Information on Ingredients

- **Active Ingredient:** 100% L-Threonine (CAS 72-19-5).
- **Impurities:** None present at hazardous levels.

4. First-Aid Measures

- **Inhalation:** Remove victim to fresh air and keep at rest. If coughing or discomfort occurs, seek medical advice.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. No special treatment required.
- **Eye Contact:** Rinse cautiously with water for 15-20 minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- **Ingestion:** Rinse mouth. Give plenty of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

5. Fire-Fighting Measures

- **Flammability:** Non-flammable solid.
- **Extinguishing Media:** Use water spray, dry chemical, foam, or carbon dioxide (CO₂).
- **Hazardous Combustion Products:** Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x).
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full fire fighting turnout gear.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Wear dust mask (P1) and nitrile gloves.



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- **Environmental Precautions:** Prevent material from entering drains, sewers, or water courses.
- **Methods for Clean-Up:** Sweep up and shovel into suitable closed containers for recovery or disposal. Avoid creating dust clouds.

7. Handling and Storage

- **Handling:** Avoid breathing dust. Use only in a well-ventilated area. Wash hands before breaks and immediately after handling the product.
- **Storage:** Store in a cool, dry, well-ventilated warehouse. Keep container tightly closed to prevent moisture absorption.
- **Shelf Life:** 24 months from date of manufacture when stored as directed.

8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** No specific OEL established for L-Threonine.
- **Engineering Controls:** Use local exhaust ventilation if dust generation is likely.
- **Personal Protective Equipment (PPE):**
 - **Eyes:** Safety glasses with side shields.
 - **Skin:** Impervious gloves (nitrile or PVC).
 - **Respiratory:** Dust respirator (EN 149 FFP1) if dust levels are high.

9. Physical and Chemical Properties

- **Appearance:** White to off-white crystalline powder.
- **Odor:** Odorless or faint characteristic odor.
- **pH:** 5.0 – 6.5 (5% w/v aqueous solution).
- **Melting Point:** 255 – 257°C (decomposes).
- **Solubility:** Freely soluble in water, slightly soluble in ethanol, insoluble in ether.
- **Bulk Density:** 0.7 – 0.9 g/cm³.
- **Vapor Pressure:** Negligible at 20°C.

10. Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
- **Hazardous Reactions:** No hazardous reactions known under normal conditions.
- **Incompatibilities:** Strong oxidizing agents, strong acids, strong bases.
- **Hazardous Decomposition Products:** See Section 5.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 10,000 mg/kg. Practically non-toxic.
- **Skin Irritation:** Non-irritating to skin.
- **Eye Irritation:** Mildly irritating to eyes.
- **Sensitization:** No known sensitizing properties.
- **Chronic Effects:** No adverse chronic effects known.

12. Ecological Information

- **Aquatic Toxicity:** Low toxicity to aquatic life.
- **Persistence and Degradability:** Readily biodegradable.



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- **Bioaccumulation Potential:** Low.
- **Mobility in Soil:** Likely to leach into groundwater due to high water solubility.

13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations. Product that cannot be reused should be disposed of in a licensed incineration plant or landfill.
- **Container Disposal:** Empty containers should be rinsed thoroughly. Recycle or dispose of as non-hazardous waste.

14. Transport Information

- **UN Number:** Not applicable (Non-hazardous for transport).
- **UN Proper Shipping Name:** Not applicable.
- **Transport Class:** Not applicable.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No.
- **Special Precautions:** Protect from rain and moisture during transport. Comply with all local transport regulations.

15. Regulatory Information

- **EU:** Complies with REACH (EC 1907/2006) and EU Feed Additives Regulation (EC) No 1831/2003.
- **US:** Approved for use in animal feed (FDA 21 CFR).
- **China:** Complies with GB/T 21970-2008 (Feed Grade L-Threonine).

16. Other Information

- This MSDS is prepared in accordance with Regulation (EC) No. 1907/2006 (REACH) and GB/T 16483-2008.
- The information provided is based on the best available data as of the date of issue and is intended for professional use only.