



# 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 26, 2026 **Version:** 1.1 **Product:** L-Tryptophan (Feed Grade) **CAS No.:** 73-22-3  
**Prepared by:** EHS Department, BioNutra Ingredients Co., Ltd. **Emergency Phone:** +86-21-5888-9999 (24h)

### 1. Identification

- **Product Name:** L-Tryptophan (Feed Grade)
- **CAS No.:** 73-22-3
- **EC No.:** 200-795-6
- **Molecular Formula:**  $C_{11}H_{12}N_2O_2$
- **Recommended Use:** Essential amino acid supplement for animal feed and premixes.
- **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. Fine dust may cause mild eye or respiratory irritation in sensitive individuals. No systemic toxicity expected.

### 3. Composition/Information on Ingredients

- **Active Ingredient:** 100% L-Tryptophan (CAS 73-22-3).
- **Impurities:** None present at hazardous concentrations.

### 4. First-Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, keep the victim at rest and seek medical advice.
- **Skin Contact:** Wash affected area with plenty of soap and water. Remove contaminated clothing and wash before reuse.
- **Eye Contact:** Rinse thoroughly with running water for 15 minutes. Remove contact lenses if present. If irritation persists, call a physician.
- **Ingestion:** Rinse mouth with water. Give plenty of water to drink. Do not induce vomiting unless instructed by a medical professional.

### 5. Fire-Fighting Measures

- **Flammability:** Non-flammable solid.
- **Extinguishing Media:** Use water spray, dry chemical powder, foam, or carbon dioxide ( $CO_2$ ).
- **Hazardous Combustion Products:** Carbon monoxide ( $CO$ ), carbon dioxide ( $CO_2$ ), nitrogen oxides ( $NO_x$ ), and smoke.
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full protective clothing. Fight fire from a safe distance.

### 6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Wear a dust mask (FFP1) and nitrile gloves.



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- **Environmental Precautions:** Prevent material from entering drains, water courses, or soil.
- **Methods for Clean-Up:** Gently sweep up and collect in a tightly closed container for recovery or disposal. Avoid generating dust during clean-up.

### 7. Handling and Storage

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

### 8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** No specific OEL established for L-Tryptophan.
- **Engineering Controls:** Provide local exhaust ventilation if dust is generated during processing.
- **Personal Protective Equipment (PPE):**
  - **Eyes:** Safety glasses with side shields.
  - **Skin:** Chemical-resistant nitrile gloves.
  - **Respiratory:** Dust respirator (EN 149 FFP1) if dust levels are elevated.

### 9. Physical and Chemical Properties

- **Appearance:** White to slightly yellowish crystalline powder.
- **Odor:** Faint, characteristic odor.
- **pH:** 5.5 – 7.0 (1% w/v aqueous solution).
- **Melting Point:** 289°C (decomposes).
- **Solubility:** Slightly soluble in water (~1.1 g/L at 25°C), insoluble in ethanol and ether.
- **Bulk Density:** 0.6 – 0.8 g/cm<sup>3</sup>.
- **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 handling.
- **Incompatibilities:** Strong oxidizing agents, strong acids, and strong bases.
- **Hazardous Decomposition Products:** See Section 5.

### 11. Toxicological Information

- **Acute Toxicity:** LD<sub>50</sub> (oral, rat) > 5,000 mg/kg. Practically non-toxic.
- **Skin Irritation:** Non-irritating to intact skin.
- **Eye Irritation:** May cause mild transient irritation.
- **Sensitization:** No known sensitizing properties.
- **Chronic Effects:** No adverse chronic effects reported in occupational settings.

### 12. Ecological Information

- **Aquatic Toxicity:** Low toxicity to aquatic organisms.
- **Persistence and Degradability:** Readily biodegradable under aerobic conditions.

- **Bioaccumulation Potential:** Very low, not expected to bioaccumulate.
- **Mobility in Soil:** Low mobility due to low water solubility.

### 13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations. Unused product can be recycled. Contaminated waste should be incinerated at a licensed facility.
- **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 packages from direct sunlight, rain, and moisture during transit.

### 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 Part 573).
- **China:** Complies with relevant national standards for feed additives.

### 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.