

Material Safety Data Sheet (MSDS)

Product Name: Tryptophan

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:** Tryptophan
- **Synonyms:** L-Tryptophan
- **CAS No.:** 73-22-3
- **Chemical Formula:** $C_{11}H_{12}N_2O_2$
- **Recommended Use:** Nutritional supplement, pharmaceutical intermediate, feed additive

2. Composition / Information on Ingredients

- **Chemical Name:** L-Tryptophan
- **Purity:** $\geq 98\%$
- **CAS Number:** 73-22-3
- **Impurities / Additives:** None significant

3. Hazards Identification

- **GHS Classification:** Not classified as hazardous under normal conditions.
 - **Health Hazards:** May cause mild irritation to eyes or skin in sensitive individuals.
 - **Environmental Hazards:** No significant environmental hazard expected.
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4. First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water. Seek medical advice if irritation occurs.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.
 - **Ingestion:** Rinse mouth, drink water. Do not induce vomiting unless directed by a physician.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical powder, or CO₂.
 - **Unsuitable Extinguishing Media:** None known.
 - **Special Hazards:** Emits toxic fumes under fire conditions.
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use gloves and protective clothing.
 - **Environmental Precautions:** Prevent discharge into drains or watercourses.
 - **Spill Cleanup:** Sweep up and place in suitable containers for disposal. Avoid generating dust.
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7. Handling and Storage

- **Handling:** Avoid inhalation of dust. Use in well-ventilated area.
- **Storage:** Store in a cool, dry, well-ventilated place. Keep container tightly closed.
- **Incompatibilities:** Strong oxidizing agents.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation recommended.
- **Personal Protective Equipment (PPE):**
 - Gloves: Chemical-resistant
 - Eye Protection: Safety goggles
 - Respiratory Protection: Dust mask if airborne dust is generated

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless or slightly characteristic
- **Melting Point:** 289–290°C
- **Solubility:** Slightly soluble in water; soluble in dilute acids
- **pH:** 5.5–6.5 (1% aqueous solution)

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture, dust accumulation
- **Incompatible Materials:** Strong oxidizing agents
- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 5 g/kg
- **Irritation:** Mild skin and eye irritation possible
- **Chronic Effects:** No known chronic effects at normal exposure levels
- **Carcinogenicity / Mutagenicity:** Not listed as carcinogenic

12. Ecological Information

- **Persistence and Degradability:** Biodegradable
- **Mobility:** Low solubility in water; may accumulate in soil
- **Ecotoxicity:** Low toxicity to aquatic organisms

13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local regulations.
- **Packaging Disposal:** Recycle or dispose of empty containers safely.

14. Transport Information (Detailed Information)

- **UN Number:** Not classified as dangerous for transport.
- **Proper Shipping Name:** L-Tryptophan
- **Transport Hazard Class:** Not regulated under ADR/RID, IMDG, or IATA regulations.
- **Packing Group:** Not applicable
- **Marine Pollutant:** No
- **Transport Precautions:**
 1. Ensure the container is tightly closed and protected from physical damage.
 2. Avoid exposure to moisture and high temperatures during transport.
 3. Transport in well-ventilated vehicles.
 4. Do not mix with strong oxidizers or other incompatible substances.
 5. For air transport, verify that the powder is securely packed to prevent dust emission.
 6. In case of spillage during transport, follow accidental release measures immediately.

15. Regulatory Information

- **Regulations:** Complies with international chemical safety regulations.
- **Classification:** Not hazardous under OSHA, EU CLP, or Indian regulations.
- **Labeling Requirements:** None required for normal handling.

16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and is intended to describe safety requirements. It does not guarantee product properties. Users should verify suitability for their application.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.