

Material Safety Data Sheet (MSDS)

Product Name: L- Arginine Hydrochloride

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:** L-Arginine Hydrochloride
- **Synonyms:** Arginine HCl, L-Arginine Monohydrochloride
- **CAS No.:** 1119-34-2
- **Molecular Formula:** $C_6H_{14}N_4O_2 \cdot HCl$
- **Molecular Weight:** ~210.66 g/mol
- **Recommended Use:** Pharmaceutical ingredient, nutritional supplements, biochemical research

2. Hazards Identification

- **Classification:** Not classified as hazardous under GHS
- **Hazard Description:** May cause mild irritation to eyes, skin, or respiratory tract
- **Signal Word:** None

- **Potential Health Effects:**
 - **Eyes:** Dust may cause irritation
 - **Skin:** Prolonged contact may cause mild irritation
 - **Inhalation:** Dust may cause respiratory discomfort
 - **Ingestion:** Generally regarded as safe when used as intended
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3. Composition / Information on Ingredients

- **Chemical Name:** L-Arginine Hydrochloride
 - **Purity:** ≥ 98% (typical)
 - **Nature:** Single substance
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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
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes
 - **Ingestion:** Rinse mouth with water; seek medical advice if discomfort occurs
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, CO₂, dry chemical powder, foam
 - **Specific Hazards:** Product may decompose under fire producing nitrogen oxides
 - **Protective Equipment:** Self-contained breathing apparatus
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6. Accidental Release Measures

- Avoid dust formation
 - Sweep up carefully and collect in suitable container
 - Use appropriate personal protective equipment
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7. Handling and Storage

- **Handling:** Avoid inhalation of dust; ensure adequate ventilation
 - **Storage:** Store in a cool, dry place in tightly closed containers
 - **Incompatibilities:** Strong oxidizing agents
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
 - **Personal Protective Equipment:**
 - Gloves
 - Safety goggles
 - Dust mask if required
 - **Hygiene Measures:** Wash hands after handling
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **pH (aqueous):** Slightly acidic
 - **Solubility:** Soluble in water
 - **Melting Point:** ~220°C (decomposes)
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions
 - **Reactivity:** No dangerous reactions known
 - **Conditions to Avoid:** Excessive heat, moisture
 - **Hazardous Decomposition Products:** Nitrogen oxides
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity

- **Skin Irritation:** Mild
- **Eye Irritation:** Mild
- **Chronic Effects:** No known significant effects

12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic life
- **Persistence and Degradability:** Biodegradable
- **Bioaccumulative Potential:** Low

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
- Small quantities may be disposed of as non-hazardous chemical waste

14. Transport Information (Detailed)

- **UN Number:** Not assigned
- **UN Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Transport Regulations:

- **ADR/RID (Road/Rail):** Not regulated
- **IMDG (Sea):** Not regulated
- **IATA (Air):** Not regulated

Special Transport Precautions:

- Transport in tightly sealed containers
- Protect from moisture and contamination
- Avoid physical damage to packaging during transit

Environmental Hazards:

- No marine pollutant classification

15. Regulatory Information

- Complies with general chemical safety regulations
- Not listed as a hazardous substance under major international regulations

16. Other Information

- This MSDS is prepared based on available data and is believed to be accurate
- The information is intended as guidance for safe handling, storage, and use
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.