

Material Safety Data Sheet (MSDS)

Product Name: L-Lysine HCL Feed Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Product Identification

- **Chemical Name:** L-Lysine Hydrochloride
- **Synonyms:** L-Lys HCl, Lysine Monohydrochloride
- **Feed Grade:** Suitable for animal feed applications.

2. Composition/Information on Ingredients

- **Ingredient:** L-Lysine HCL
- **CAS Number:** 657-27-2
- **Purity:** Typically $\geq 78\%$
- **Hazardous Components:** None at feed grade

3. Hazards Identification

- **Emergency Overview:** Non-toxic, non-flammable solid; may cause irritation if inhaled or in contact with eyes.
 - **Potential Health Effects:**
 - **Inhalation:** May cause mild respiratory irritation.
 - **Skin Contact:** May cause mild irritation.
 - **Eye Contact:** May cause mild irritation.
 - **Ingestion:** Generally safe in feed-grade quantities; excessive intake may cause gastrointestinal discomfort.
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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; remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with plenty of water for 15 minutes; consult a physician if irritation persists.
 - **Ingestion:** Rinse mouth; drink water; seek medical attention if large quantities are ingested.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
 - **Specific Hazards:** Product is non-flammable; may decompose under high heat forming nitrogen oxides.
 - **Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus if necessary.
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6. Accidental Release Measures

- **Personal Precautions:** Use gloves and dust mask. Avoid dust formation.
- **Environmental Precautions:** Prevent material from entering drains or watercourses.
- **Cleanup Methods:** Sweep up and collect; place in suitable containers for disposal.

7. Handling and Storage

- **Handling:** Avoid dust formation; wash hands after handling.
- **Storage:** Store in a cool, dry, ventilated area. Keep container tightly closed. Protect from moisture and contaminants.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation; dust control systems if necessary.
- **Personal Protective Equipment (PPE):**
 - Respiratory: Dust mask if dust exposure occurs.
 - Hands: Protective gloves.
 - Eyes: Safety goggles.
 - Clothing: Protective clothing as needed.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH:** 5–7 (1% solution)
- **Melting Point:** 260–262°C
- **Solubility:** Soluble in water
- **Density:** ~1.18 g/cm³

10. Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Excessive heat, moisture.
- **Incompatible Materials:** Strong oxidizing agents.

- **Hazardous Decomposition Products:** May release nitrogen oxides when heated to decomposition.
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity; LD50 oral (rat) > 10 g/kg.
 - **Skin/Eye Irritation:** Mild irritation possible.
 - **Chronic Effects:** None known.
 - **Carcinogenicity, Mutagenicity, Reproductive Effects:** Not classified as hazardous.
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12. Ecological Information

- **Environmental Impact:** Low toxicity to aquatic life.
 - **Persistence and Degradability:** Biodegradable.
 - **Bioaccumulation:** Not expected to bioaccumulate.
 - **Mobility:** Soluble in water; may disperse in the environment.
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13. Disposal Considerations

- **Waste Disposal:** Dispose of according to local regulations.
 - **Packaging:** Dispose of containers properly; rinse before disposal.
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14. Transport Information (Detailed)

- **UN Number:** Not classified as hazardous.
- **UN Proper Shipping Name:** L-Lysine Hydrochloride Feed Grade
- **Transport Hazard Class:** Not regulated for transport; non-flammable, non-toxic solid.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** No significant environmental hazards.

- **Transport Precautions:**
 - Avoid moisture and contamination during transport.
 - Keep in tightly closed containers.
 - Handle to prevent dust formation.
 - Suitable for road, rail, sea, and air transport under normal conditions.
 - **Regulations:** Complies with local and international feed additive transport regulations.
 - **Emergency Procedures:** In case of spillage during transport, sweep up material and prevent entry into waterways; wear protective equipment.
 - **Special Notes:** No additional special handling required; non-hazardous nature simplifies transport logistics.
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15. Regulatory Information

- Complies with Indian Feed Regulations.
 - Not classified as hazardous under OSHA, EU, or GHS.
 - Labeling: Feed additive, handle according to general safety guidelines.
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16. Other Information

- **Disclaimer:** Information in this MSDS is provided in good faith. Users must determine suitability for their intended use. It is the responsibility of the user to comply with all local, national, and international regulations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.