

Material Safety Data Sheet (MSDS)

Product Name: L- Lysine HCL Feed Grade Powder

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-Lysine Hydrochloride (Feed Grade)

Synonyms: L-Lysine HCL

CAS Number: 657-27-2

Molecular Formula: $C_6H_{14}N_2O_2 \cdot HCl$

Recommended Use: Animal feed additive, nutritional supplement for livestock.

2. Hazard Identification

- **Classification:** Not classified as hazardous according to GHS.
- **Appearance:** White to light-yellow crystalline powder.
- **Route of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Potential Health Effects:**
 - **Eyes:** May cause mild irritation.

- **Skin:** Non-irritating; prolonged contact may cause dryness.
- **Inhalation:** Dust may cause slight respiratory irritation.
- **Ingestion:** Low toxicity; large amounts may cause discomfort.

3. Composition / Information on Ingredients

L-Lysine Hydrochloride

Purity: Feed Grade

Typical Content: ≥ 98.5%

4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical assistance if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse eyes with plenty of water for 15 minutes.
 - **Ingestion:** Rinse mouth; seek medical advice if large quantity swallowed.
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5. Fire Fighting Measures

- **Flash Point:** Not applicable (non-flammable).
 - **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂.
 - **Fire Hazards:** Emits CO, CO₂ on thermal decomposition.
 - **Protective Equipment:** Wear self-contained breathing apparatus.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep or vacuum into suitable container.
 - Prevent from entering drains.
 - Use personal protective equipment: mask, gloves.
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7. Handling and Storage

- Handle in well-ventilated area.
- Avoid creating dust clouds.
- Store in a cool, dry place away from moisture.
- Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation recommended.
- **Personal Protection:**
 - Respirator: Dust mask.
 - Gloves: Protective gloves.
 - Eyes: Safety goggles.
 - Clothing: Standard workwear.

9. Physical and Chemical Properties

- **Appearance:** Light yellow to white crystalline powder
- **Odor:** Odorless
- **Solubility:** Soluble in water
- **Melting Point:** > 250°C (decomposes)
- **pH (solution):** 5.0–6.0
- **Bulk Density:** Approx. 0.55–0.75 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** CO₂, CO, nitrogen oxides on extreme heating.

11. Toxicological Information

- **Acute Toxicity:** Low toxicity.
- **Skin Irritation:** Not classified.
- **Eye Irritation:** Mild, reversible irritation possible.
- **Sensitization:** Not expected.

12. Ecological Information

- **Environmental Impact:** Not harmful to environment under normal use.
- **Biodegradability:** Biodegradable.
- **Aquatic Toxicity:** Very low.

13. Disposal Considerations

- Dispose according to local regulations for non-hazardous organic materials.
- Avoid release into the environment.

14. Transport Information (Detailed Information)

L-Lysine HCL Feed Grade Powder is **not classified as hazardous** for transportation under major regulatory frameworks. Details are below:

UN Classification

- **UN Number:** Not applicable (non-regulated).
- **UN Proper Shipping Name:** Not regulated.
- **Transport Hazard Class:** Not applicable.
- **Packing Group:** Not applicable.

ADR/RID (Road/Rail Transport – Europe & similar systems)

- Not classified as dangerous goods.
- No special labeling required.
- Transport in well-sealed bags/containers to avoid moisture and dust generation.

IMDG (Sea Transport)

- Not regulated as hazardous by the International Maritime Dangerous Goods Code.
- **Marine Pollutant:** No.
- Store in dry cargo conditions; avoid water contact.

IATA/ICAO (Air Transport)

- Not regulated as hazardous cargo.
- Can be transported normally; ensure packaging prevents powder leakage.

Additional Transport Notes

- Keep product dry during transport.
- Protect packaging from tearing or puncture.
- Transport in clean, covered, and ventilated vehicles.
- No special emergency transport procedures required.

15. Regulatory Information

- Not listed as hazardous under global chemical inventories.
- Complies with feed-grade additive standards where applicable.

16. Other Information

This MSDS is prepared based on available data and is believed to be accurate. It is intended for feed-grade industrial use only. Users must evaluate suitability for their specific 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.