# Material Safety Data Sheet

## 1: Chemical Product and Company Identification

**Product Name:** L-Lysine hydrochloride  
**Catalog Code:** 41200052-1, 41200052-2, 41200052-3  
**CAS#:** 657-27-2  
**RTECS:** OL5650000  
**TSCA:** TSCA 8(b) inventory : L-Lysine hydrochloride  
**CI#:** Not available.  
**Synonym:** 2,6-Diaminohexanoic Acid Hydrochloride; L-Lysine Monohydrochloride  
**Chemical Name:** L-Lysine hydrochloride  
**Chemical Formula:** C₆H₁₄N₂O₂·HCl

### Contact information:

- **bioWORLD**  
  4150 Tuller Rd  
  Suite 228, Dublin, OH 43017, USA  
  For information, call: 614-792-8680  
  Fax Number: 614-792-8685  
  Order Online: [www.bio-world.com](http://www.bio-world.com)

- E-mail: save@bio-world.com

- **In case of a chemical emergency, contact local hospital.**

- **For non-emergency assistance, call:** 1-800-860-9729

## 2: Composition and Information on Ingredients

### Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Lysine hydrochloride</td>
<td>657-27-2</td>
<td></td>
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</tbody>
</table>

### Toxicological Data on Ingredients:

- **LD₅₀ (Oral, Rat):** 10 g/kg

## 3: Hazards Identification

**Potential Acute Health Effects:** Corrosive. Causes burns.

**Potential Chronic Health Effects:**

- **CARCINOGENIC EFFECTS:** Not available.
- **MUTAGENIC EFFECTS:** Not available.
4: First Aid Measures

**Eye Contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Skin Contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Serious Inhalation:** Not available.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Serious Ingestion:** Not available.

5: Fire and Explosion Data

**Flammability of the Product:** Noncombustible.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Product of Combustion:** Hydrogen chloride gas, Nature of decomposition products not known.

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:** Not available.

**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use extinguishing media appropriate to surrounding fire conditions.

**LARGE FIRE:** Not available.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

6: Accidental Release Measures

**Small Spill:** Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage
### Precautions:
Do not breathe vapor. Do not get in eyes, on skin, on clothing.

### Storage:
Keep tightly closed. Store at 2-8°C

### 8: Exposure Controls/Personal Protection

**Engineering Controls:** Safety shower and eye bath. Use only in a chemical fume hood.

**Personal Protection:**
- Respiratory: Government approved respirator.
- Hand: Chemical resistant gloves.
- Eye: Safety glasses.

**Personal Protection in Case of a Large Spill:**
- Splash goggles.
- Full suit.
- Boots.
- Dust respirator.
- Gloves.

**Exposure Limits:** Not available.

### 9: Physical and Chemical Properties

**Physical State and Appearance:** Solid (Powder).

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 182.65 g/mole

**Color:** White.

**pH(1% soln/water):** Not available.

**Boiling Point:** Not available.

**Melting Point:** 263 - 264 °C

**Critical Temperature:** Not available.

**Specific Gravity:** 1.006

**Vapour Pressure:** Not available.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Soluble in water.

### 10: Stability and Reactivity Data

**Stability:** Stable.

**Instability Temperature:** Not available.
### 11: Toxicological Information

**Routes of Entry:** Skin contact. Eye contact. Ingestion. Inhalation.

**Toxicity to Animals:**

LD$_{50}$ (Oral, Rat): 10 g/kg

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.

### 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Product of Biodegradation:** Not available.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

### 13: Disposal Considerations

**Waste Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

### 14: Transport Information
### DOT Classification
Not a DOT controlled material.

### Identification
Not available.

### Special Provisions for Transport
Not available.

### 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory : L-Lysine hydrochloride

**Other Regulations:** Not available.

**Other Classifications:**
- **WHMIS(Canada):** Not available.
- **DSCL(EEC):** Not available.
- **HMIS(U.S.A.):**
  - **Health Hazard:** 1
  - **Fire Hazard:** 0
  - **Reactivity:** 0

**Personal Protection:**
- Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

**National Fire Protection Association (U.S.A):**
- **Health:** 1
- **Flammability:** 0
- **Reactivity:** 0

**Specific hazard:**

### 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 31/10/2006 11:23:03 AM

**Last Updated:** 18/12/2008 12:41:17 PM

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