



Health	1
Fire	0
Reactivity	0
Personal Protection	

Material Safety Data Sheet

L-Lysine hydrochloride

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: $C_6H_{14}N_2O_2 \cdot HCl$

Contact information:

bioWORLD

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Suite 228, Dublin, OH 43017, USA

For information, call: 614-792-8680

Fax Number: 614-792-8685

Order Online: 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:

Name	CAS#	% by Weight
L-Lysine hydrochloride	657-27-2	-

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.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: 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.

Conditions of Instability: Not available.

Incompatibility with various substances: Bases, Amines, Alkali metals Copper, Copper alloys, Aluminum.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11: Toxicological Information

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

Toxicity to Animals:

LD₅₀ (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:

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

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

16: Other Information

References: Not available.

Other Special Considerations: Not available.

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