

Material Safety Data Sheet
L-Lysine hydrochloride

Section 1 - Product Identification

Synonyms : **L-Lysine hydrochloride**
Chemical Formula : C₆H₁₄N₂O₂·HCl
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Recommended use of the chemical and restrictions on use:

White pigments for application in coating materials, printing inks, man-made fibers, plastics, paper, glass, viereous enamels, ceramic products

Section 2 –Composition/Information on Ingredients

Chemical Name	EC/CAS No	Purity, %
L-Lysine hydrochloride	657-27-2	>98%

LD50 (Oral, Rat): 10 g/kg

Section 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.

Section 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.

Section 5 – Fire Fighting Measures

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.

Section 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.

Section 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

Section 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.

Section 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.

Section 10 – Stability and Reactivity

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.

Section 11 – Toxicological Information

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

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.

Section 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.

Section 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.

Section 14 – Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.

Special Provisions for Transport: Not available.

Section 15 – 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.

Section 16 : Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.