

Material Safety Data Sheet

L-Lysine Monohydrochloride 99%

Section 1 - Product Identification

Synonyms	: (2S)-2,6-Diaminohexanoic Acid Hydrochloride
Formula	: $C_6H_{15}ClN_2O_2$
CAS No.	: 6422-86-2
Company Identification	: Tradeasia International Pte. Limited
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Section 2 – Composition/Information on Ingredients

Chemical Name	EC No/CAS No	%
L-Lysine Monohydrochloride	6422-86-2	99

Section 3 – Hazards Identification

Caution! The toxicological properties of this material have not been fully investigated. May cause eye, skin, and respiratory tract irritation. Target Organs: Central nervous system, respiratory system.

Potential Health Effects

Eye:	May cause eye irritation.
Skin:	May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation:	May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:	Exposure to high concentrations may cause central nervous system depression.

Section 4 – Composition/ information on ingredients

CAS Number	Content	Chemical name
6422-86-2	99 %	L-Lysine Monohydrochloride

Section 5 – First-Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
Skin:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion:	Do not induce vomiting. Get medical aid if irritation or symptoms occur.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to
Physician:

Section 6 – Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits:

Lower: Not available

Explosion Limits:

Upper: Not available

NFPA Rating: health: 1; flammability: 1; instability: 0;

Section 7 – Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 8 – Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 9 – Exposure Controls/Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA -Final PELs
L-Lysine Monohydrochloride	Not listed	Not listed	Not listed

OSHA Vacated PELs: L(+)-Lysine monohydrochloride: None listed

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 10 – Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: none reported

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available
Freezing/Melting Point: 263 - 264 deg C(decom)
Decomposition Temperature:
Solubility in water: 65 g/100mL (20C)
Specific Gravity/Density: Not available.

Molecular Formula: $C_6H_{15}ClN_2O_2$
Molecular Weight: 1 82.65

Section 11 – Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, dust generation, excess heat.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported

Section 12 – Toxicological Information

RTECS#: CAS# 6422-86-2: OL5650000
RTECS:
LD50/LC50: CAS# 6422-86-2: Oral, rat: LD50 = 10 gm/kg;

Carcinogenicity: L(+)-Lysine monohydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Section 13 – Ecological Information

Other: Do not empty into drains.

Section 14 – Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 15 – Transport Information

US DOT
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:

Section 16 – Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 6422-86-2: 0

Canada

CAS# 6422-86-2 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 6422-86-2 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 6422-86-2 is listed on the TSCA Inventory.

Section 17 : Additional Information

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information concerning legal regulations can lay no claim to completeness. In addition to this, other provisions may also apply to the product.