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Material Safety Data Sheet

L- LYSINE HCL , MSDS

Section 1: Chemical Product and Company Identification

MSDS Name: L- LYSINE HCL

Catalog Numbers: 12522-0000, 12522-0010, 12522-1000, 12522-2500

Synonyms: L(+)-2,6-Diaminocaproic acid hydrochloride; L(+)-2,6-Diaminohexanoic acid hydrochloride

Contact Information:

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Section 2: Composition and Information on Ingredients

CAS#	Chemical Name	Percent	EINECS#
657-27-2	L-Lysine Hcl	≥98.5	211-219-9

Section 3: Hazards Identification

EMERGENCY OVERVIEW

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

Expected to be a low ingestion hazard

Section 4: First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure to fresh air immediately.

Notes to Physician:

Section 5: Fire and Explosion Data

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 chemical foam.

Section 6: 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.

Section 7: Handling and Storage

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

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

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear a chemical apron.

Respirators:

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Section 9: Physical and Chemical Properties

Physical State:	Crystalline powder
Appearance:	white
Odor:	practically odorless
pH:	Not available.
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	263 - 264 deg C
Autoignition Temperature:	Not available.
Flash Point:	Not available.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	>240 deg C
Solubility in water:	SOLUBLE IN WATER: 36 G/100 ML (20° C)
Specific Gravity/Density:	
Molecular Formula:	C ₆ H ₁₄ N ₂ O ₂ .HCl
Molecular Weight:	182.65

Section 10: Stability and Reactivity Data

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizing agents.
Hazardous Decomposition Products:
Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

RTECS#:

CAS# 657-27-2: OL5650000

LD50/LC50:

CAS# 657-27-2: Oral, rat: LD50 = 10 gm/kg.

Carcinogenicity:

L(+)-LYSINE MONOHYDROCHLORIDE -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

thoroughly investigated.

Additional Information

RTECS: KH2975000

Section 12: Ecological Information

Ecotoxicity:

Product is a form of the natural amino acid L-Lysine and can therefore be degraded microbiologically.

Section 13: Disposal Considerations

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

Section 14: Transport Information

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15: Other 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# 657-27-2: 0

United Kingdom Occupational Exposure Limits

Canada

CAS# 657-27-2 is listed on Canada's DSL List.

CAS# 657-27-2 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 657-27-2 is listed on the TSCA inventory.

Section 16: Other Information

Chemical Safety Data, Edition II.

Other Special Considerations: Not available.

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