

Material Safety Data Sheet L-Lysine HCL 98.5%

Section 1: Chemical Product and Company Identification

Product Name : L-Lysine monohydrochloride
Chemical Formula : $C_6H_{14}N_2O_2 \cdot HCL$
Address : Tradeasia International PTE LTD
133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel:+65-6227 6365
Fax:+65-6225 6286
Email: contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	Percent	EINECS/ELINCS
L-Lysine monohydrochloride	657-27-2	≥98,5%	211-519-9

Hazard Symbols: None listed.

Risk Phrases: None listed.

Section 3: Hazards Identification

EMERGENCY OVERVIEW

Appearance: white solid. The toxicological properties of this material have not been fully investigated.

Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Expected to be a low ingestion hazard.

Inhalation: May cause respiratory tract irritation.

Chronic: Not available.

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 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 and move to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

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.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: Not published.

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.

Chemical Name	ACGIH	NIOSH
L-Lysine monohydrochloride	none listed	none listed

OSHA Vacated PELs: L-(+)-Lysine monohydrochloride: No OSHA Vacated PELs are listed for this chemical.

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	: Solid
Appearance	: white or hazel
Odor	: odorless or a little of special smell
pH	: PH of aqueous solution(1+10) is 5.0-6.0.
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
Specific Gravity/Density	:Not available.
Molecular Formula	:C6H14N2O2 . 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
RTECS:	OL5650000
LD50/LC50:	Oral, rat: LD50 = 10 gm/kg;<BR.
Carcinogenicity:	
CAS#	657-27-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Section 12: Ecological Information

Ecotoxicity:	No data available. Product is a form of the natural amino acid L-Lysine and can therefore be degraded microbiologically.
Environmental:	No information available.
Physical:	No information available.
Other:	No information available.

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14: Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name	No information available				No information available
Hazard Class					
UN Number					
Packing Group					

Section 15: Other Regulatory Information

US FEDERAL

TSCA

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

Health & Safety Reporting List

- None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

- None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

- None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

- None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

- None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

- None of the chemicals in this product have a TPQ.

Section 313

- No chemicals are reportable under Section 313.

Clean Air Act:

- This material does not contain any hazardous air pollutants.
- This material does not contain any Class 1 Ozone depleters.
- This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

- None of the chemicals in this product are listed as Hazardous Substances under the CWA.
- CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA.
- CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
- CWA.

OSHA:

- None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

- CAS# 657-27-2 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
- California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

- CAS# 657-27-2: 0

Canada - DSL/NDSL

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

Canada - WHMIS

- This product has a WHMIS classification of Not controlled.

Canadian Ingredient Disclosure List

Exposure Limits

Section 16: Other Information

Product Use:

Laboratory Reagent.

Revision Information:

March. 07. 2015.

Hazardous Material Information System (HMIS)	Health	1
	Flammability	1
	Physical Hazard	0